Las Positas College

Catalog Addendum

Spring 2018

New Programs:

AA-T- Music

About the Program:

A student earning the Associate in Arts in Music for Transfer Degree will utilize the theoretical elements of music to improve performance; perform music with regard to good use of pitch, tone, balance and expression; read and memorize music; improvise (as appropriate) and interpret music. Courses in the Music Department are designed to fulfill the needs of music majors, professional musicians, and those whose interest is avocational or recreational. Completion of the Associate in Arts in Music for Transfer Degree will provide a streamlined pathway for transfer to a CSU campus with a Music or similar major. Students are encouraged to contact a counselor and consult the Catalog for guidance when planning to transfer to a four-year institution in this major. Although not required to receive the AA-T in Music, the LPC Music department strongly recommends that its AA-T students complete MUS 1 – Music Literature and piano courses MUS 21A and 21B in preparation for piano placement exams. Students entering the BA in Music will be required to take placement exams in music theory and piano and audition on their major instrument.

Completion Requirements:

(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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
   b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district

(2) Obtainment of a minimum grade point average of 2.0.
   ADT's also require that students must earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in the major.

Career Opportunities:

Performing and teaching are the two most common careers in music, but those alone don't begin to cover what music majors/minors can pursue once they graduate. Many musicians typically combine performance with non-performance work to experience fulfilling careers. A music education prepares students for careers as performers, teachers, composers, historians, arts administrators, and more. Career options include: conductor, arranger, film composer, music business/manager, music editor, music supervisor/ director, songwriter, transcriber, editor (print music publishing), choir director, recording engineer, studio director or manager, sound designer, music therapist, instrumental soloist, sound technician, and tour coordinator. Many careers require more than two years of study.

Required Core

MUS 8A (Harmony and Musicianship I) 4
MUS 8B (Harmony & Musicianship II).....4
MUS 10A (Chromatic Harmony/Musicianship).....4
MUS 10B (Post Romantic/20th Cen Harmony) 4

Applied Music (must take four semesters)

MUS 38 (Applied Lessons) 4

Large Ensemble (Select four)

MUS 12 (Wind Ensemble).....1
MUS 14 (Jazz Workshop) 1
MUS 15 (Jazz Ensemble) 1
MUS 16 (Philharmonic Orchestra) 1
MUS 44 (Concert Choir).....1
MUS 45 (Chamber Choir) 1
MUS 46A (Beginning Jazz Choir).....1
MUS 46B (Advanced Jazz Choir).....1
MUS 17A (Jazz Combo 1) 1
MUS 17B (Jazz Combo 2) 1
Total Units for the Major.....24
Total Units Required.....**60**

Music Technology Career Certificate

About the Program:

This Certificate program is designed for students who wish to learn or enhance their audio recording and production skills. Students will work in the state-of-the-art Las Positas College music technology and keyboard lab, and will learn how to record, edit and mix multi-track recordings on industry-industry standard software platforms in an extremely hands-on environment. Students will also gain a solid foundation of music theory, keyboarding, and ensemble performance.

Career Opportunities:

Students who come through this certificate program will have career opportunities as an audio recording engineer. As the modern music industry shifts more towards an independent or DIY marketplace for studio recording, career opportunities for music recordists are largely freelance. Nonetheless, the labor market data for audio recording engineers shows positive job growth in the region, particularly in the East Bay. Beyond music recording, students will emerge with a very solid technical foundation that will allow for more institutionally-oriented jobs in audio recording and manipulation (editing) for visual media. They will acquire high-level recording and mixing skills in industry-standard software platforms that will allow for multiple entry points into the job market outside of the traditional music studio recording careers.

Required Core

MUS 35 (Intro to Music Technology).....3
MUS 36 (Intermediate Music Technology).....3
MUS 6 (Basic Music Skills).....2
MUS 21A (Beginning Piano).....1

Electives: Select one

MUS 12 (Wind Ensemble).....1
MUS 14 (Jazz Workshop).....1
MUS 17A (Jazz Combo 1).....1
MUS 44 (Concert Choir).....1
MUS 45 (Chamber Choir).....1
MUS 46A (Beginning Jazz Choir).....1

Total Units Required.....10

Nutrition and Dietetics AS-T

About the Program:

The Associate in Science in Nutrition and Dietetics for Transfer is designed for prospective California State University (CSU) transfer students who are preparing for careers in the field of Nutrition and Dietetics such as a Registered Dietitian (RD), Nutritionist, Licensed Nutritionist and Dietetic Technician Registered (DTR) to name a few. Completion of the Nutrition and Dietetics degree will provide a streamlined pathway for transfer to a CSU campus with a Nutrition Science or similar major. Students should consult with a counselor to determine whether or not this degree is the best option for their transfer goals. General education requirements should be selected carefully based on the intended transfer institution. There are UC unit limitations with Chemistry courses; please see a counselor for details if you are pursuing transfer to the UC system.

Completion Requirements:

(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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
   b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district

(2) Obtainment of a minimum grade point average of 2.0.
   ADT's also require that students must earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in the major.

Career Opportunities:

The majority of Registered Dietitians (RD), Registered Dietitian Nutritionist (RDN) and Diet Technicians (DTR) work in the treatment and prevention of disease (administering medical nutrition therapy, often part of medical teams), in hospitals, HMOs, private practice or other health-care facilities. In addition, a large number of RDs work in community and public health settings and academia and research. A growing number of RDs and Licensed Nutritionists work in the food and nutrition industry, in business, journalism, sports nutrition, corporate wellness programs and other non-traditional work settings. Preparation for the Dietetic Internship to achieve a RD, RDN, DTR or Licensed Nutritionist credential requires a bachelor's degree in nutrition.

Required Core

NUTR 1 (Nutrition) 3
PSYC 1 (General Psychology) 3
CHEM 1A (General College Chemistry I) 5
BIO 7C (Microbiology) 5

LIST A: Select Two

CHEM 1B (General College Chemistry II) 5
CHEM 12A (Organic Chemistry I) 5
BIO 7A (Human Anatomy) 5
BIO 7B (Human Physiology) 5
MATH 40 (Statistics and Probability) 4

LIST B: Select One

ANTR 3 (Social/Cultural Anthropology) 3
CHEM 12B (Organic Chemistry II) 5
CHEM 30A (Intro and Applied Chemistry I) 4
CHEM 30B (Intro and Applied Chemistry II) 4
ECON 1 (Principles of Microeconomics) 3
ECON 2 (Principles of Macroeconomics) 3
SOC 1 (Principles of Sociology) 3
Total Units for the Major 28-31
Total Units Required 60

Revised Programs:

AS-T- Mathematics

About the Program:

The Las Positas College Mathematics program offers courses that lead to an Associate in Science in Mathematics for Transfer degree. The major requirements for the Associate in Science in Mathematics for Transfer degree align with the Intersegmental Transfer Model Curriculum (TMC) for Mathematics. Students will have guaranteed admission to a California State University (CSU) campus upon successful completion of the program requirements. Students should consult with a counselor to determine whether this degree is the best option for their transfer goals. General education requirements should be selected carefully based on the intended transfer institution.

Completion Requirements:

(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 Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
   b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district

(2) Obtainment of a minimum grade point average of 2.0.
   ADT's also require that students must earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in the major.

Career Opportunities:

The Associate in Science in Mathematics for Transfer degree is intended to provide an option for students who plan to complete a bachelor's degree in a similar major at a CSU campus, or pursue a teaching career, since teachers of mathematics are always in demand. They study of mathematics can prepare students for a variety of technical and scientific careers. The problem-solving and communication skills acquired are valuable in business, industry, and everyday life, and mathematics is an essential component of any engineering or science degree.

Required Core

MATH 1 (Calculus I).....5
MATH 2 (Calculus II).....5
MATH 3 (Multivariable Calculus).....5

LIST A: Select one

MATH 5 (Ordinary Differential Equations).....3.5
MATH 7 (Elementary Linear Algebra).....3.5

LIST B: Select one
Any LIST A course not already used

PHYS 1A (General Physics I).....5
CS 1 (Computing Fundamentals I).....4
MATH 40 (Statistics and Probability).....4

Total Units for the Major.....22-23.5
Total Units Required.....60

AA- Music

About the Program:

The Music major offers a secure foundation for further study in music. Courses in the Music Department are designed to fulfill the needs of music majors, professional musicians, and those whose interest is avocational or recreational.

Career Opportunities:

Examples of careers for the music major include the following: Accompanist, Acoustician, Adjudicator/Clinician, Agent, Arranger Arts, Entertainment and Contract Attorney, Arts Journalist/Reviewer, Arts/Personnel Management, Arts Marketing and Sales, Audio Production, Composer, Conductor, Copyist/Transcriber, Copyright Consultant, Cruise Ship Entertainer, Curator (Arts, Instruments and Manuscripts), Editor, Film/T.V./Video Game Composer, Foley Artist, Fundraiser/Grant Writer, Instrument Designer and Builder, Instrument Manufacturer, Intellectual Property Rights Attorney, Keyboard Technician/Piano Tuner, Lyricist, Music-Consultant, Music Librarian, Music Psychologist, Music Store Owner, Music Theoretician, Music Therapist, Musical Theater/Pit Musician, Musicologist, Organ Builder/Tuner/Technician, Part Preparer, Performer, Producer, Proofreader, Music Educator, Music Publisher, Recording Session Musician, Songwriter, Sound and Stage Technician, Sound Designer, Sound Engineer, Tour/Road Manager

Required Core

MUS 8A (Harmony and Musicianship I) 4
MUS 8B (Harmony & Musicianship II).....4
MUS 10A (Chromatic Harmony/Musicianship).....4
MUS 10B (Post Romantic/20th Cen Harmony) 4
MUS 21A (Beginning Piano) 1
MUS 21B (Beginning Piano: Intermediate) 1
MUS 38 * (Applied Lessons) 4

List A: Music Electives

Select courses from the following for a total of 4 units:

MUS 1 (Introduction to Music).....3
MUS 3 (World Music).....3
MUS 4 (Jazz in American Culture) 3
MUS 5 (American Cultures in Music) 3
MUS 18A (Jazz/Pop Piano 1) 1
MUS 18B (Jazz/Pop Piano 2) 1
MUS 19 (Studies in Music Composition).....3
MUS 20 (Elementary Guitar).....1
MUS 23A (Elementary Voice I) 1
MUS 23B (Elementary Voice II) 1
MUS 33 (Study of Voice).....1
MUS 34 (Music in Film).....3
MUS 35 (Intro to Music Technology).....3
MUS 37 (Music Industry Career Development).....3
MUS 39 (Musical Theater Workshop) 2
MUS 47 (College Productions-Music) .....1 - 5

List B: Performance Electives

Select courses from the following for a total of 4 units:

MUS 12 (Wind Ensemble).....1
MUS 14 (Jazz Workshop) 1
MUS 15 (Jazz Ensemble) 1
MUS 16 (Philharmonic Orchestra) 1
MUS 17A (Jazz Combo 1) 1
MUS 17B (Jazz Combo 2) 1
MUS 44 (Concert Choir).....1
MUS 45 (Chamber Choir) 1
MUS 46A (Beginning Jazz Choir).....1
MUS 46B (Advanced Jazz Choir).....1

General Education and Electives
Total Units for the Major.....30
Total Units Required.....60
*** Must take four semesters**

Welding Technology Certificate of Achievement

About the Program:

The Certificate of Achievement in Welding Technology is designed to prepare students for entry level employment in a manufacturing environment. Operating safely as well as providing the needed welding skills to pass standard industry tests are also key outcomes of the certificate. Knowledge and skills in auxiliary equipment, processes and materials is also covered as well. Completion of the certificate will provide the student a strong knowledge foundation to utilize and apply common welding processes.

Career Opportunities:

The welding industry offers a wide variety of dynamic and challenging careers. Underwater welders are needed on offshore oil rigs. Welder-operators use automated welding systems to manufacture cars. Structural welders help to construct skyscrapers and bridges. In addition to welders, other professionals such as certified inspectors and engineers rely on welding to do their jobs. Without these professionals, our country would fall apart. The demand for skilled welding professionals is constantly growing. By 2025, our nation's workforce will need over 400,000 welders to satisfy the demands of several industries.

Required Core

MATH 71A (Applied Mathematics for Technicians A) 1.5
MATH 71B (Applied Mathematics for Technicians B) 1.5
WLDT 73 (Welding Workplace Safety)..... 1
WLDT 55 (Print Reading for Industry)..... 2
WLDT 63 (Welding Layout and Fitting) 2
WLDT 66 (Welding Inspection and Testing)..... 2

List A: Select from the following list for a total of 15 units

WLDT 80 (The Welding Business)..... 2
WLDT 72A (Beginning Laser Welding) 2
WLDT 72B (Intermediate Laser Welding) 3
WLDT 72C (Advanced Laser Welding) 2
WLDT 61A (Beginning SMAW and FCAW Theory)..... 1
WLDT 61AL (Beginning SMAW and FCAW Skills Lab) 2
WLDT 61B (Advanced SMAW and FCAW Theory)..... 1
WLDT 61BL (Advanced SMAW and FCAW Skills Lab) 2
WLDT 62A (Beginning GTAW and GMAW Theory)..... 1
WLDT 62AL (Beginning GTAW and GMAW Skills Lab)..... 2
WLDT 62B (Advanced GTAW and GMAW Theory)..... 1
WLDT 62BL (Advanced GTAW and GMAW Skills Lab)..... 2
WLDT 67A (Welding Skills Lab)..... 2
WLDT 67B (Advanced Welding Skills Lab)..... 2
WLDT 68 (Certification Preparation) 2
WLDT 70 (Introduction to Welding)..... 2
WLDT 1 (Welding Camp)..... 1

Total Units Required..... **25**

AS- Welding Technology

About the Program:

The Associate in Science in Welding Technology prepares students for the welding and manufacturing industry. Welding touches every aspect of our modern life from the shoes we wear to the food we eat. The Welder or Welding Technician is concerned with all of the activities related to the manufacturing, production, performance, and maintenance of welded products. Interest is primarily in the manufactured or fabricated product, including process selection, power sources, base and filler materials , manufacturing methods, hands-on skills training, inspection, quality control, performance evaluation, and equipment service. The broad range of welded products with which welders and welding technicians deal includes structures, such as bridges, buildings, utility equipment, wind turbines, and communication towers; pressure vessels and heat exchangers, such as nuclear systems, boilers, solar thermal systems, oil and natural gas exploration, chemical processing equipment, storage vessels, and transmission and distribution piping; transportation vehicles for water, land, air, and space travel; and production and processing machines of all types.

Career Opportunities:

The welding industry offers a wide variety of dynamic and challenging careers. Underwater welders are needed on offshore oil rigs. Welder-operators use automated welding systems to manufacture cars. Structural welders help to construct skyscrapers and bridges. In addition to welders, other professionals such as certified inspectors and engineers rely on welding to do their jobs. Without these professionals, our country would fall apart. The demand for skilled welding professionals is constantly growing. By 2025, our nation's workforce will need over 400,000 welders to satisfy the demands of several industries.

Required Core

MATH 71A (Applied Mathematics for Technicians A) 1.5
MATH 71B (Applied Mathematics for Technicians B) 1.5
WLDT 73 (Welding Workplace Safety)..... 1
WLDT 55 (Print Reading for Industry)..... 2
WLDT 61A (Beginning SMAW and FCAW Theory)..... 1
WLDT 61AL (Beginning SMAW and FCAW Skills Lab) 2
WLDT 61B (Advanced SMAW and FCAW Theory)..... 1
WLDT 61BL (Advanced SMAW and FCAW Skills Lab) 2
WLDT 62A (Beginning GTAW and GMAW Theory)..... 1
WLDT 62AL (Beginning GTAW and GMAW Skills Lab)..... 2
WLDT 62B (Advanced GTAW and GMAW Theory)..... 1
WLDT 62BL (Advanced GTAW and GMAW Skills Lab)..... 2
WLDT 63 (Welding Layout and Fitting) 2
WLDT 66 (Welding Inspection and Testing)..... 2
WLDT 69A (Beginning Pipe Welding) 3
WLDT 69B (Advanced Pipe Welding) 3

List A: Select from the following list for a total of 13 units

WLDT 1 (Welding Camp)..... 1
WLDT 72A (Beginning Laser Welding) 2
WLDT 72B (Intermediate Laser Welding) 3
WLDT 72C (Advanced Laser Welding) 2
WLDT 67A (Welding Skills Lab)..... 2
WLDT 67B (Advanced Welding Skills Lab)..... 2
WLDT 68 (Certification Preparation) 2
WLDT 70 (Introduction to Welding)..... 2
WLDT 80 (The Welding Business)..... 2

General Education and Electives

Total Units for the Major..... 41
Total Units required 60

New / Revised Courses:

ASTR 10 **Introduction to Astronomy: The Solar System** **3 Units**

Introduction to history and physical principles of astronomy, focusing on our Solar System. Includes: constellations; distance scales; historical development of astronomy; gravitation; motion of the Earth, Moon, and Planets; astronomical tools; formation and evolution of the solar system; physical properties, atmosphere, and evolution of the Earth, Moon, and planets within the solar system; asteroids, comets, and other small bodies; discovery of extra-solar planets; possibilities for life beyond Earth. Designed for non-majors in mathematics or a physical science. A companion science lab, Astronomy 30, is also available. 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: B1; IGETC: 5A.

Degree Applicable, Credit Grading Option: OP

ASTR 20 **Introduction to Astronomy: Stars and the Universe** **3 Units**

Introduction to the study of stars, galaxies, and cosmology. Includes the nature of light and matter, telescopes, spectroscopy, stellar formation and evolution, galaxies, quasars, and cosmology. Designed for non-majors in mathematics or a physical science. A companion science lab, Astronomy 30, is also available. 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: B1; IGETC: 5A.

Degree Applicable, Credit Grading Option: OP

AUTO A9 **Light Vehicle Diesel Engines** **4 Units**

An in depth study of diesel engines: mechanical, measurement, and assembly. A study of the above mentioned components including theory, teardown, evaluate, qualifying, and rebuilding. Diesel engine performance including emissions, turbos, exhaust and intake systems. This class' emphasis is on diesel engines and diesel engine performance/emissions. Students are encouraged to enroll in Automotive Lab concurrently. Prerequisite: AUTO INTR (may be taken concurrently) (completed with a grade of "C" or higher). 2 hours lecture, 6 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO C1 **Automobile Service Consultant** **4 Units**

Automotive Service Consultant fundamentals including: Communications, customer service, legal documents, business interactions, billing, parts and labor guides, shop management applications, shop operations, sales, vehicle identification and systems operations. Course content is aligned with tasks identified by Automotive Service Excellence (ASE) certification. Student is advised to take Auto LABA concurrently. Prerequisite: AUTO INTR (may be taken concurrently) (completed with a grade of "C" or higher). 2.5 hours lecture, 4.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO L1 **Advanced Engine Performance** **5 Units**

Continuation of Automotive Technology A6 and A8 with an emphasis on diagnosis of electronic problems including computer controlled circuits/systems using schematics, diagnostic procedures and equipment. Students are strongly recommended to enroll in Automotive Lab concurrently. Prerequisite: AUTO A6 (may be taken concurrently) (completed with a grade of "C" or higher) or AUTO A8 (may be taken concurrently) (completed with a grade of "C" or higher). 3 hours lecture, 6 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

AUTO LABB **Automotive Lab Advanced** **2 Units**

Automotive Lab Advanced is an open laboratory class for advanced automotive students. This class is for students desiring to expand their hands-on experience using their own vehicle. Instructor will provide technical and supervisory support to guide students in completion of their self initiated projects. Students are expected to help others in class and be able to work without guidance. Service information via computer service manuals will be available for students to use for vehicle information and research. Class is recommended for second year students only. Prerequisite: AUTO LABA (completed with a grade of "C" or higher) and AUTO INTR (completed with a grade of "C" or higher). 6 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

BUSN 30 **Business Ethics and Society** **3 Units**

A survey of the past and current behavior of business in America society. Examines the ethical, political and social issues confronting organizations and the organizations' responsibilities and obligations in responding to them. Discusses the responsibility of business toward customers, employees, stockholders, competitors, suppliers, government, and the community at large. Strongly Recommended: BUSN 40 (completed with a grade of "C" or higher), Eligibility for ENG 1A. 3 hours lecture. AA/AS GE. Transfer: CSU; CSU GE: D.

Degree Applicable, Credit Grading Option: GR

BUSN 40 **Introduction to Business** **3 Units**

A multidisciplinary examination and introduction to business operations within the U.S. and internationally. Provides an overview of global economic systems, business formations, business ethics and laws, general accounting practices and financing, facility location and layout, production, organizational structures and management functions. Fundamentals of risk management, marketing, human resources, and employee motivation are covered. Demonstrates how culture, society, and external business environments impact a business' ability to achieve its organizational goals. Strongly Recommended: ENG 1A. 3 hours lecture. Transfer: CSU, UC; C-ID# BUS 110.

Degree Applicable, Credit Grading Option: OP

BUSN 48 **Human Relations in Organizations** **3 Units**

An introduction to the interpersonal skills needed in today's workplace with a focus on effective communication, decision making, cross cultural relations, diversity, resolving conflict, managing change, group dynamics, and ethical behavior. 3 hours lecture. AA/AS GE. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

BUSN 53 **Business Correspondence** **3 Units**

Development of skills for composing general business correspondence to a variety of audiences including multiple levels within an organization and cross cultural communications. Crafting messages , including e-mail, administrative communications, technical reports, meeting agendas, and meeting minutes. Determining the appropriate media for the communication, correct writing style, and level of terminology within the message. Emphasis on appropriate English grammar, spelling, on-line netiquette, and cross-cultural communications. Strongly Recommended: ENG 1A. 3 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

BUSN 56 **Introduction to Management** **3 Units**

Introduction to the application of tools, principles and concepts in business management. Emphasis will be on planning, organizing, leading, and controlling. Additional topics will include decision-making, employee motivation, team work, and current trends. Strongly Recommended: Eligibility for ENG 1A. 3 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

BUSN 58 **Small Business Management** **3 Units**

Fundamentals for individuals starting, operating, and growing a successful small business enterprise. Emphasis on all endeavors: self-employment; freelancing; brick and mortar, pop-up and Internet retailing; technical and professional services; and franchising. Focus on achieving optimum benefits from limited resources; financing strategies; marketing options; legal, ethical, and regulatory issues encountered by all start-ups. Strongly Recommended: BUSN 1A (completed with a grade of “C” or higher) or BUSN 51A (completed with a grade of “C” or higher). 3 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 8 **Essential Computing Skills** **2 Units**

Fundamental computer competency course designed to develop the basic computer skills and knowledge required in today’s technological world. Basic computer competency is no longer a nicety, but a necessity in our personal and work lives. Topics include: basic computer hardware/software, networks and the Internet, effective web searches, file management skills, and cloud storage options. Hands-on experience with word processing, spreadsheet, presentation, and database software using Microsoft Office. No previous experience with computers is required. 1.5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 54 **Excel: Intro to Spreadsheets** **4 Units**

This is a comprehensive spreadsheet class using Microsoft Excel to create a variety of spreadsheets with emphasis on business applications. Introductory, intermediate, and advanced topics are covered. Introductory topics include entering, editing, and formatting data, creating basic formulas using arithmetic operator and functions, creating charts, saving and printing worksheets. Intermediate topics include using Excel's Table features for sorting filtering and summarizing data, creating PivotTables, working with multiple worksheets and workbooks, naming cells, data validation, recording macros, and protecting worksheets. Advanced topics include using financial functions such as PMT, RATE, FV, creating nested IFs, using VLOOKUP and HLOOKUP functions, using What-If analysis tools such as Goal Seek, one and two variable Data Tables, and Scenario Manager, sharing workbooks, and integrating Excel with other Office applications. Strongly Recommended: CIS 50. 3 hours lecture, 3 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 57 **Database Concepts** **3 Units**

Introduction to Database Concepts, a computer program that is used to organize, store, and retrieve information. Understanding of data, database structure, and database objects using Microsoft Access or similar programs with emphasis on business applications. Identify and evaluate client needs/requirements and translate those needs into a working database application model. Integrate Microsoft Access data with other Microsoft applications, such as Word and Excel. Strongly Recommended: CIS 50 and CIS 55. 2 hours lecture, 3 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 59 **Web Dev: HTML/CSS/Javascript** **3 Units**

This course will provide a fundamental understanding of the methods and techniques of developing a simple to moderately complex web site. Topics include: creating webpages with current standard webpage language (HTML), cascading style sheets (CSS), and Javascript. Exploration of incorporating images, audio/visual media, and interactive tools like forms and image maps. This course prepares apprentice Web developers to identify the information needs of a client, design appropriate WWW solutions, and implement them. Strongly Recommended: CIS 50. 2.5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 59C **Web Programming- JavaScript** **3 Units**

Develop client-side, interactive webpages using JavaScript and/or jQuery scripting languages. Write JavaScript scripts that manipulate with the JavaScript Document Object Model (DOM), control program flow, validate forms, animate images, target frames, and create cookies. Strongly Recommended: CIS 59. 2.5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 74 **Office Procedures** **3 Units**

Introduction to office principles, procedures, and technology. Topics include telephone skills, office equipment, working effectively in a team environment, records management, customer service, meeting/event planning, postal/shipping services, utilizing the internet for on-line services and resources, using appropriate software to complete common tasks, written and oral business communications, conflict resolution, and office etiquette. Prepares administrative professionals to work in a diversified workforce with emerging technologies. (Formerly BUSN 74.) Strongly Recommended: CIS 8 and CIS 71C. 2 hours lecture, 3 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 84 **Windows** **1 Unit**

Hands-on class introducing Microsoft Windows operations. Topics include: logging in, the Windows Desktop, launching applications, working with multiple applications windows, proper shutdown techniques, and using Microsoft Edge to browse the web. File and folder management are also covered including creating folders, copying and moving files and folders, searching for specific files, and navigating drives and folders. .5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 88A **Introduction to Microsoft Word** **1.5 Units**

Develop the skills needed in the workplace to produce common business documents, such as letters, resumes, flyers, and reports. Topics include document creation and editing; use of Microsoft Word features to apply character and paragraph formatting; creating and formatting tables, enhancing visual appeal by incorporating graphics elements, using the mail merge feature, and printing documents. Strongly Recommended: CIS 71A. 1 hour lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 88B **Adv Microsoft Word** **1.5 Units**

Advanced word processing techniques used to produce complex business documents. Includes topics such as format multiple page reports, create tables of contents and indexes, insert footnotes/endnotes, using Word's collaboration features to share documents, create macros to automate tasks, and integrate data from Excel and other programs. Strongly Recommended: CIS 88A. 1 hour lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 89A **Desktop Presentation** **1 Unit**

Desktop presentation design techniques and enhancements. Application using current desktop presentation software. Hands-on experience creating, editing, saving, printing slide shows, incorporating graphics, charts, tables, SmartArt, sounds, and video, enhancing presentations using transitions and animations. .5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 89B **Desktop Publishing** **1 Unit**

Design professional-looking documents such as newsletters, flyers, and brochures quickly and easily using Microsoft Publisher. .5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 92 **Web: PHP Programming, MySQL** **3 Units**

This course showcases the popular and powerful PHP (Hypertext Preprocessor), an open source, server-side scripting language that can be easily integrated with HTML and SQL. For web developers who need to add dynamic content to their web sites, including form processing, database-driven content, password protection, cookie processing. You will learn how PHP can be combined with MySQL to integrate database functions into websites. Strongly Recommended: CIS 59. 2.5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CIS 9001 **Database Design Methodology** **3 Units**

This course provides students with a vendor-neutral introduction to and an overview of database systems; including database design, conceptual, logical and physical data modeling, Entity Relationship models. This course includes sections on relational databases, Structured Query Language (SQL) and optimizing databases through normalization. You will apply your knowledge with hands-on labs designed to apply the intricacies of database design methodology. Strongly Recommended: CIS 57. 2.5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CNT 54 **Administering Windows Client** **4 Units**

In this class, students learn to install, configure, and manage the current Windows client workstation for a professional business network using virtualization and/or online using virtual labs. Course content follows the Microsoft Official Academic course curriculum and is intended to prepare students to take the Microsoft client component of the Microsoft Certified Solutions Associate (MCSA) or the Microsoft Certified Solutions Expert (MCSE) certification exam. Topics include configuring device drivers, access control, networking, storage, apps, remote management, updates, data recovery, authentication, and advanced management tools. Strongly Recommended: CNT 51, CNT 52. 3 hours lecture, 3 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CNT 68 Digital Forensics Fundamentals 3 Units

A practical course in Digital Forensics; the detection, and investigation of incidents involving computers, networks, the Internet, and digital information. Case oriented, following the objectives for the CFE Computer Forensics Examiner certification exam and the International Association of Computer Investigative Specialists (IACIS), the class includes understanding and practice in basic computer forensics, methods of investigation, analysis of storage media, logs, and tracking persons and data, using court-approved evidence collection tools. Also covered, computer forensics as a profession; the computer investigation process, and technical writing. Strongly Recommended: CIS 66 (completed with a grade of "C" or higher). 2.5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CNT 7401 Intro to Linux/LPI Linux+ Certification 3 Units

This course provides hands-on training covering basic installation, management, configuration, documentation and hardware topics for the Linux/UNIX operating system on workstations in a network environment. The course includes comprehensive coverage of topics related to Linux distributions, installation, administration, X-Windows, and networking. Students who have completed or are enrolled in Computer Science 41 may not receive credit. Strongly Recommended: CNT 50 (completed with a grade of "C" or higher). 2.5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CNT 8001 Introduction to Networks (CCNA1) 3 Units

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The course uses the OSI and TCP layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. At the end of the course, students build simple LAN topologies by applying basic principles of cabling; performing basic configurations of network devices, including routers and switches; and implementing IP addressing schemes. This course is preparation for the CompTIA Network+ certification exam. It also covers the first half of the CCENT Cisco Certified Entry-Level Network Technician Associate Cisco CCENT certification exam. CNT62B covers the second half. Students will get hands-on experience configuring Cisco routers and switches. Students should have strong basic computer skills and knowledge of Internet use. Strongly Recommended: CIS 50. 2.5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CNT 8002 Routing and Switching Essentials (CCNA2) 3 Units

This is the second course in the Cisco® Networking Academy®. This course describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. Prerequisite: CNT 8001 (completed with a grade of "C" or higher). 2.5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CS 16 **Mobile Application Development- IPhone** **3 Units**

Object-oriented programming in Swift for the iPhone, iPad and related platforms at a beginning to intermediate level. Introduction to the iOS mobile platform. Introduction to Swift syntax and concepts and the iOS application programming interface (API), including: classes, objects, inheritance, protocols, optionals, arrays, dictionaries, and closures; creating user interfaces; using graphics and audio; responding to touch-based user interaction. Strongly Recommended: CS 1. 2.5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

CS 41 **Intro to Linux/ LPI Linux+ Certification** **3 Units**

This course provides hands-on training covering basic installation, management, configuration, documentation and hardware topics for the Linux/UNIX operating system on workstations in a network environment. The course includes comprehensive coverage of topics related to Linux distributions, installation, administration, X-Windows, and networking. Students who have completed or are enrolled in Computer Networking Technology 7401 may not receive credit. Strongly Recommended: CNT 50 (completed with a grade of "C" or higher)**.** 2.5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

DANC 1 **Introduction to Dance** **1 Unit**

Introduction to the dance technique specific to ballet, modern and jazz dance. Similarities and differences found in each dance form will be explored. The history of ballet, modern and jazz dance will be examined. 3 hours laboratory. AA/AS GE. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

DANC 5A **Dance Composition 5A** **2 Units**

An introduction to the art of making dances for choreographers working in any style of dance, this course is open to students who have little or no dance training. 1 hour lecture, 3 hours laboratory. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

DANC 5B **Dance Composition 5B** **2 Units**

A continuation to the art of making dances for choreographers working in any style of dance.1 hour lecture, 3 hours laboratory. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit Grading Option: OP

DANC 6A **Dance Production- Choreography A** **2 Units**

Exploration of choreographic principles along with stage presentation leading to a full-length concert. Participation in dance works either as a choreographer or performer. Minimal participation in technical and business aspects of production. Strongly Recommended: DANC 5A (completed with a grade of "C" or higher) or DANC 5B (completed with a grade of "C" or higher). 6 hours laboratory. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

DANC 6B **Dance Production- Choreography B** **2 Units**

Choreograph dance works specifically for a full length stage production. Involved participation in the technical, creative and business aspects of stage production. Strongly Recommended: DANC 5A (completed with a grade of "C" or higher) or DANC 5B (completed with a grade of "C" or higher). 6 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

ECD 15 **Abnormal Child Psychology** **3 Units**

An exploration of the emotional, cognitive, developmental, and behavioral problems of childhood and adolescence. Topics include: common stresses and problems of adjustment; the effects of stress, abuse, and traumas on development; intellectual disability, autistic spectrum disorder and other developmental disabilities; normal and abnormal problems of attention, conduct, mood, anxiety, sleep, eating, sex, learning and speech. Examination of the causes of mental health problems in children and adolescents and approaches to treatment. Students who have completed or are enrolled in PSYC 15 may not receive credit. 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: D; IGETC: 4.

Degree Applicable, Credit Grading Option: OP

ENG 1A **Critical Reading and Composition** **3 Units**

Integrated approach to reading, writing, and critical thinking intended to develop ability to read and write complex, college-level prose. Examination of ideas in relation to individual's worldview and contexts from which these ideas arise. Some research required. Integrated approach to reading, writing, and critical thinking intended to develop ability to read and write complex, college-level prose. Prerequisite: ENG 104 (completed with a grade of "Pass" or higher) or ESL 25 (completed with a grade of "C" or higher). 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: A2; IGETC: 1A. C-ID# ENGL 100.

Degree Applicable, Credit Grading Option: GR

ESL 24 **Advanced Reading and Composition I** **6 Units**

This is the first semester of a one-year advanced reading and writing course for academic purposes. Emphasis is on critical reading techniques and writing expository essays as well as on grammar and vocabulary development. Prerequisite: ESL 121B (completed with a grade of "Pass" or higher) or placement through the ESL assessment process. 6 hours lecture, 1 hour laboratory. Transfer: CSU, UC*. *ESL 24 & 25 combined, max UC credit, 8 units.

Degree Applicable, Credit Grading Option: OP

ESL 25 **Advanced Reading and Composition II** **6 Units**

This is the second semester of a one-year reading and writing course for academic purposes. Emphasis is on critical reading and techniques of exposition, analysis, and argumentation. Prerequisite: ESL 24 (completed with a grade of "C" or higher) or placement through the ESL assessment process. 6 hours lecture, 1 hour laboratory. Transfer: CSU, UC*.*ESL 24 & 25 combined, max UC credit, 8 units.

Degree Applicable, Credit Grading Option: OP

ESL 121A **Intermediate Reading and Writing I** **6 Units**

This is the first semester of a one-year course in intermediate academic writing and reading. Classes will focus on writing sentences, paragraphs and compositions, developing strategies for reading comprehension and flexibility, on interactive reading, and on academic vocabulary development. Students will develop cultural understanding,

vocabulary, and fluency through a variety of academic writing and reading tasks. Students are advised to enroll concurrently in ESL 120A, 121A and 123 or 126. Prerequisite: ESL 131B (completed with a grade of "Pass" or higher) or placement through the ESL assessment process. 6 hours lecture, 1 hour laboratory.

Nondegree Applicable, Credit Grading Option: P/NP

ESL 121B Intermediate Reading and Writing II 6 Units

This is the second semester of a one-year course in intermediate academic writing and reading. Classes will focus on writing sentences, paragraphs and compositions, developing strategies for reading comprehension and flexibility, on interactive reading, and academic vocabulary development. Students will develop cultural understanding and fluency through a variety of academic writing and reading tasks. Students are advised to enroll concurrently in ESL 120B, 121B and 123 or 126. Prerequisite: ESL 121A (completed with a grade of "Pass" or higher) or placement through the ESL assessment process. 6 hours lecture, 1 hour laboratory.

Nondegree Applicable, Credit Grading Option: P/NP

ESL 131A Beginning Reading and Writing I 6 Units

This is the first semester of a one-year course in beginning academic writing and reading. Classes will focus on writing simple and compound sentences in short paragraphs, on developing strategies for increasing reading comprehension and flexibility, on interactive reading, and on developing academic vocabulary. Students will develop cultural understanding and fluency through a variety of writing and reading tasks. Strongly recommended: Appropriate skill level demonstrated through the ESL assessment process. Students are advised to enroll concurrently in ESL 131A, 130A, and 133 or 136. 6 hours lecture, 1 hour laboratory.

Nondegree Applicable, Credit Grading Option: P/NP

ESL 131B Beginning Reading and Writing II 6 Units

This is the second semester of a one-year course in beginning academic writing and reading. Classes will focus on writing simple, compound, and complex sentences in structured paragraphs, on developing strategies for increasing reading comprehension and flexibility, on interactive reading, and on developing academic vocabulary. Students will develop cultural understanding and fluency through a variety of writing and reading tasks. Students are advised to enroll concurrently in ESL 131B, 130B, and 133 or 136. Prerequisite: ESL 131A (completed with a grade of "Pass" or higher) or placement through the ESL assessment process. 6 hours lecture, 1 hour laboratory.

Nondegree Applicable, Credit Grading Option: P/NP

EVST 5 Energy and Sustainability 3 Units

Introduction and exploration of Energy production, utilization, management, and the effects on society and the environment. This course will also compare and contrast current and future renewable and non renewable methods of energy generation, auditing, and conservation. Strongly Recommended: Eligibility for ENG 1A. 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: B1; IGETC: 5A.

Degree Applicable, Credit Grading Option: OP

HIST 14 History and American Cultures of California 3 Units

The history of California from its pre-contact societies to the present, with particular attention to the following periods: Spanish exploration and colonization; the Mexican Revolution; American conquest and the Gold Rush; the Progressive Era; the Great Depression and World War II; and the social movements of the 1960's. In addition to

exploring the major political, economic, technological, social, cultural, and environmental developments that have shaped California's history, this course will focus on the distinct and overlapping experiences of the state's Native American, Latino American, African American, Asian American, and European American populations. 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: C2, D; IGETC: 3B, 4.

Degree Applicable, Credit Grading Option: GR

HLTH 1 Introduction to Personal Health 3 Units

An exploration of major health issues and behaviors in the various dimensions of health (physical, emotional, intellectual/mental, social, spiritual, and environmental). Emphasis is placed on individual responsibility for personal health and the promotion of informed, positive health behaviors. Topics include psychological health, mental health, stress management, nutrition, exercise, weight management, chronic and infectious diseases, healthy relationships, sexual health, drug use and misuse, aging, and the health care system. 3 hours lecture. AA GE. Transfer: CSU, UC*; CSU GE: E. *HLTH 1 and HLTH 3 combined, max UC credit, one course.

Degree Applicable, Credit Grading Option: OP

HUMN 44 Narrative Film and Film Music 3 Units

An examination of narrative cinema and the function of sound and music in cinema. An exploration of the major conventions of narrative films and of the contributions of composers to the art of filmmaking. A study of the impact of film and film music on 20th-21st century culture. 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B.

Degree Applicable, Credit Grading Option: OP

KIN CYCL2 Cycling 2 .5-2 Units

This course is the second in a series of Indoor Cycling courses. Emphasis is based on beginning to intermediate cycling techniques, heart rate calculations, fitness evaluations, and cardiovascular training and program design. Beginning level principles of physiology are explored including how to train to elicit a desired physiological response. Utilizing a variety of equipment student will develop core endurance and strength. This class is designed for students interested in aerobic fitness improvement through indoor cycling as well as Kinesiology majors. 27-108 hours laboratory per semester. AA/AS GE. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

KIN 17 Intro to Athletic Training and Sports Medicine 4 Units

Basic taping skills, introduction to modality usage, and basic rehabilitation principles of athletic training. Designed to be preparatory for further education and a career in Athletic Training and or other Sports Medicine related fields. May include work with intercollegiate sports programs. Legal and ethical issues, professionalism, organization and administration of a sports medicine facility. This course is focused on preparing those interested in becoming Athletic Trainers and Coaches. 3 hours lecture, 3 hours laboratory. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: GR

KIN 18A Athletic Training Practicum 1 1 Unit

Designed to provide clinical experience for students interested in sports-related injury care and prevention. Organization of a clinical facility and management of game day operations. Experiences will include taping for prevention of injury, use of modalities for the treatment and/or rehabilitation of injuries, stretching techniques, identify

and manage emergency situations. Prerequisite: KIN 17 (completed with a grade of "C" or higher). 3 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

KIN 18B Athletic Training Practicum 2 1 Unit

This course will expose students to injury evaluation, methods of diagnosis and rehabilitation. The student will help make return to play decisions based on the knowledge they have learned in their coursework. The students will develop and administer conditioning programs to Las Positas College athletes with the guidance of the Certified Athletic Trainer. Prerequisite: KIN 18A (completed with a grade of "C" or higher). 3 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

KIN 19 Care and Prevention of Athletic Injuries 3 Units

This course provides an introduction to the principles and scientific foundations of athletic training. Examination in the techniques used in the prevention of athletic injuries, including taping, bandaging, and strapping along with how to recognize and evaluate basic signs and symptoms associated with common injuries. Establishing a plan of care that includes rehabilitative exercise will also be studied. Legal and ethical issues, professionalism, organization and administration of a sports medicine facility. This course is focused on preparing those interested in becoming Athletic Trainers and Coaches. Prerequisite: KIN 17 (completed with a grade of "C" or higher). 2 hours lecture, 3 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

LIBR 1 Working with Sources 1 Unit

Introduction to using sources as supporting documentation in a college level research project. Teaches the skills needed to successfully find, evaluate, use, cite, and document information using library and open web sources. Focus on identifying appropriate sources and proper use of sources. Students will learn to distinguish between source types, how to avoid plagiarism, and how to use sources in their research projects. 1 hour lecture. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

MATH 55C Intermediate Algebra Corequisite Support 2 Units

This course is a co-requisite for Intermediate Algebra. The course is designed to provide additional support to students who are currently taking an Intermediate Algebra course, such as students who would like formal, built-in support, students who have not placed into Math 55 but hope to accelerate through the sequence of basic skill math courses, or those who are repeating the course. This course will support students in achieving Intermediate Algebra learning goals by providing a review of arithmetic, algebraic and geometric concepts that are relevant to their Intermediate Algebra course, by providing study strategies that promote understanding and improve performance, more in-depth investigation of core concepts that are difficult for students to master, and learning skills. Prerequisite: MATH 107 (completed with a grade of "C" or higher) or MATH 107B (completed with a grade of "C" or higher). Corequisite: MATH 55. 2 hours lecture.

Nondegree Applicable, Credit Grading Option: P/NP

MATH 110C Elementary Algebra Corequisite Support 2 Units

This course is a corequisite for Elementary Algebra. The course is designed to provide additional support to students who are currently taking an Elementary Algebra course, such as students who would like formal, built-in support,

students who have not placed into Math 65 but hope to accelerate through the sequence of basic skill math courses, or those who are repeating the course. This course will support students in achieving Elementary Algebra learning goals by providing a review of arithmetic, algebraic and geometric concepts that are relevant to their Elementary Algebra course, by providing study strategies that promote understanding and improve performance, more in-depth investigation of core concepts that are difficult for students to master, and learning skills. Corequisite: MATH 65. 2 hours lecture.

Nondegree Applicable, Credit Grading Option: P/NP

MATH 110E Elementary Algebra A Corequisite Support 2.5 Units

This credit course is a co-requisite for Elementary Algebra A, the first half of Elementary Algebra. This course is only available through manual enrollment for students who are taking Elementary Algebra in the Emporium mode and have completed at least the Elementary Algebra A material. This course will support students in achieving Elementary Algebra A learning goals by providing support around mastering the necessary arithmetic, algebraic and geometric concepts that are relevant to their Elementary Algebra A course. This course will provide study strategies that promote understanding and improve performance, more in-depth investigation of core concepts that are difficult for students to master, and learning skills. Prerequisite: MATH 107 (completed with a grade of “C” or higher) or MATH 107B (completed with a grade of “C” or higher). Corequisite: MATH 65A. 2.5 hours lecture.

Nondegree Applicable, Credit Grading Option: P/NP

MKTG 50 Introduction to Marketing 3 Units

Marketing as a value exchange process involving all societal members; an overview of product development, pricing, placement, and promotion; Target markets including the demographic and behavioral dimensions of markets; analyses of marketing placement and pricing strategies and the social, cultural, economic, competitive and legal factors affecting marketing mix decisions. Strongly Recommended: ENG 1A (completed with a grade of “C” or higher). 3 hours lecture. Transfer: CSU; CSU GE: D.

Degree Applicable, Credit Grading Option: OP

MKTG 61 Professional Selling 3 Units

Principles and techniques involved in selling products , ideas, and/or services. Focus is on building relationships with others, identifying the reasons a purchase decision may be made. Includes buying motives, communication options, developing commonalities, sales call planning, ethics, follow-up contacts, and customer service. Interactions for face-to-face and online encounters; professional and technical products; consultants; and anyone wanting to improve their interactions with others. 3 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

MSCM 2 Journalism: Investigative News 3 Units

News and feature writing, emphasizing investigative reporting, research techniques, and story presentation. Strongly Recommended: ENG 1A. 3 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

MSCM 3 **Magazine & Feature Writing** **3 Units**

Feature writing, freelance journalism, and how to get published in newspapers and magazines. Strongly Recommended: Eligibility for ENG 1A. 3 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

MSCM 14 **Writing and Photo Publication** **1 Unit**

Journalism, photojournalism, content development, and production for the college newspaper. 3 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

MSCM 72 **Introduction to Photojournalism** **3 Units**

This course deals with the photographer as a journalist, focusing on theory and practice in press and publications photography, with emphasis on using the camera as a reporting and communications tool. Covered are news and feature photography and photographic essays, including composition, impact, and creativity, for newspapers, magazines, the Internet, and other mass communications media. Understanding and applying photojournalistic and basic technical and visual skills in the making of successful reportage photographs. Consideration of the work of major 20th and 21st century photojournalists. Course is cross listed with PHTO 72. Student will receive credit for taking either MSCM 72 or PHTO 72. Strongly Recommended: PHTO 50 and/or PHTO 56 and/or VCOM 53. 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU, UC*; C-ID# JOUR 160. *MSCM 35, MSCM 72, PHTO 72 combined: maximum credit, one course.

Degree Applicable, Credit Grading Option: OP

MUS 1 **Introduction to Music** **3 Units**

Music for enjoyment and understanding through informed listening, analysis, evaluation and discernment of musical elements, forms, and repertoire. Attendance at concerts and listening to a variety of music may be required. 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A.

Degree Applicable, Credit Grading Option: GR

MUS 25 **Teaching Beginning Piano** **2 Units**

Principles of successful piano teaching with emphasis upon development of technique and reading ability in beginner level students; private and group piano teaching methods; personal development as teacher and musician. Observation of piano lessons or classes and supervised practice teaching of private or class piano students may be required. Intended for pianists with intermediate or advanced skills. Strongly Recommended: MUS 21B. 2 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

MUS 36 **Intermediate Music Technology** **3 Units**

This course is the 2nd level course in the music technology series. Topics include intermediate/advanced computer skills, software-based sequencing, synthesis, MIDI, sampling, notation, principles of sound, microphones, introduction to digital audio, signal processing, mixers and mixing, recording principles, cables and interconnects, and audio in live performance. Prerequisite: MUS 35 (completed with a grade of “C” or higher). 3 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

MUS 44 **Concert Choir** **1 Unit**

Development of sufficient vocal and music ability to interpret and perform a variety of vocal chamber music. Designed for singers with choral ensemble experience. Audition required. 3 hours laboratory. AA/AS GE. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

PCN 5 **Introduction to Social Work and Human Services** **3 Units**

An introductory overview of social welfare and the societal institutions in the U.S. that structure the provision of social services. The course presents a historical perspective on the development of U.S. social work and human services. Special attention is given to the evolution of social welfare programs and institutions, major U.S. court decisions, contemporary social problems, current service delivery systems, policies, procedures, and the tasks of culturally responsive social workers and human service workers within those settings. Strongly Recommended: ENG 1A (completed with a grade of "C" or higher). 3 hours lecture. AA/AS GE. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

PHYS 2A **Introduction to Physics I** **4 Units**

Introduction to the major principles of classical mechanics using pre-calculus mathematics. Includes Newtonian mechanics, energy, gravitation, fluids, thermodynamics, oscillations, and waves. Prerequisite: MATH 38 (completed with a grade of "C" or higher) or MATH 39 (completed with a grade of "C" or higher). 3 hours lecture, 3 hours lab. AA/AS GE. Transfer: CSU, UC; CSU GE: B1, B3; IGETC: 5A, 5C; C-ID# PHYS 105.

Degree Applicable, Credit Grading Option: GR

PHYS 2B **Introduction to Physics II** **4 Units**

This algebra-based course is an introduction to the basic principles of electricity, magnetism, and modern physics. Topics include electrostatics, magnetism, circuits, electromagnetic waves, optics, relativity, atomic physics, and nuclear physics. Prerequisite: PHYS 2A (completed with a grade of "C" or higher). 3 hours lecture, 3 hours lab. Transfer: CSU, UC; CSU GE: B1, B3; IGETC: 5A, 5C; C-ID# PHYS 110.

Degree Applicable, Credit Grading Option: GR

PHTO 70 **Photoshop and Lightroom for Photographers** **3 Units**

Learn to use Lightroom and Photoshop in a workflow designed for digital photographers. Learn Best practices for digital workflows, database management, non-destructive parametric editing, color management, and output to print, web, slideshows, and photo book. Students who have completed, or are enrolled in, VCOM 70 may not receive credit. Prerequisite: PHTO 56 (may be taken concurrently) (completed with a grade of "C" or higher). 1.5 hours lecture, 4.5 hours laboratory. AA/ AS GE. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

PHTO 72 **Introduction to Photojournalism** **3 Units**

This course deals with the photographer as a journalist, focusing on theory and practice in press and publications photography, with emphasis on using the camera as a reporting and communications tool. Covered are news and feature photography and photographic essays, including composition, impact, and creativity, for newspapers, magazines, the Internet, and other mass communications media. Understanding and applying photojournalistic and basic technical and visual skills in the making of successful reportage photographs. Consideration of the work of

major 20th and 21st century photojournalists. Course is cross listed with MSCM 72. Student will receive credit for taking either MSCM 72 or PHTO 72. Strongly Recommended: PHTO 50 and/or PHTO 56 and/or VCOM 53. 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU, UC*; C-ID# JOUR 160. *PHTO 72, MSCM 72 and MSCM 35 combined: maximum credit, one course.
Degree Applicable, Credit Grading Option: OP

PSYC 13 Psychology of Women 3 Units

This course examines the diverse experiences of women from a psychological perspective. Students will explore psychological theory and research on gender and issues that affect women, and will gain insight into how psychologists investigate gender-related issues. Strongly Recommended: PSYC 1 (completed with a grade of "C" or higher). 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: D; IGETC: 4.

Degree Applicable, Credit Grading Option: OP

PSYC 15 Abnormal Child Psychology 3 Units

An exploration of the emotional, cognitive, developmental, and behavioral problems of childhood and adolescence. Topics include: common stresses and problems of adjustment; the effects of stress, abuse, and traumas on development; intellectual disability, autistic spectrum disorder, and other developmental disabilities; normal and abnormal problems of attention, conduct, mood, anxiety, sleep, eating, sex, learning and speech. Examination of the causes of mental health problems in children and adolescents and approaches to treatment. Students who have completed or are enrolled in Early Childhood Development 15 may not receive credit. 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: D; IGETC: 4.

Degree Applicable, Credit Grading Option: OP

SOC 3 Cultural and Racial Minorities 3 Units

Racial and ethnic relations in the United States. Examines the cultural, political, and economic practices and institutions that support or challenge racism, racial and ethnic inequalities, as well as patterns of interaction between various racial and ethnic groups. Strongly Recommended: SOC 1 (completed with a grade of "C" or higher). 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: D; IGETC: 4; C-ID# SOCI 150.

Degree Applicable, Credit Grading Option: OP

SOC 4 Marriage and Family Relations 3 Units

Sociological perspective of the family including mate selection, marital roles, marital adjustment, sexual adjustment, reproduction, child rearing, marital dissolution, and problems associated with the family in modern industrial society. Strongly Recommended: SOC 1 (completed with a grade of "C" or higher). 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: D, E; IGETC: 4; C-ID# SOCI 130.

Degree Applicable, Credit Grading Option: GR

SOC 5 Global Change 3 Units

This course looks at the economic and political forces that have led to rapid changes in global interaction and culture over the past century, with special emphasis on the last twenty years. It explores the issues of nationalism, global citizenry, state violence, terrorism, the global economy, migration, the threatened environment, technology, and the role of multinational media industries on culture. Strongly Recommended: SOC 1 (completed with a grade of "C" or higher). 3 hours lecture. AA/ AS GE. Transfer: CSU, UC; CSU GE: D; IGETC: 4.

Degree Applicable, Credit Grading Option: GR

SOC 7 Sociology of Sexuality 3 Units

This course looks at the social forces that influence, and are influenced by our construction of sexuality. Topics covered include: the social construction of the erotic, the creation of sexual identities, gender and sexuality, religion and sexuality, sexual commerce, and global issues such as birth control and STDs. Strongly Recommended: SOC 1 (completed with a grade of "C" or higher). 3 hours lecture. Transfer: CSU, UC; CSU GE: E.

Degree Applicable, Credit Grading Option: GR

SOC 12 Popular Culture 3 Units

The course explores the historical, theoretical, political, and economic factors that influence the creation and diffusion of popular culture. It examines the impact of technological innovation and globalization on how popular culture is consumed and how this affects society. Strongly Recommended: SOC 1 (completed with a grade of "C" or higher). 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: D; IGETC 4.

Degree Applicable, Credit Grading Option: OP

THEA 14 Bay Area Theatre 3 Units

Appreciation of theatrical performances through reading, evaluating and attending live productions. Specific content is determined by currently available theatrical productions. 2.5 hours lecture, 1.5 hours laboratory. AA/AS GE. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A.

Degree Applicable, Credit Grading Option: GR

VCOM 2 Wordpress and Content Management Systems 3 Units

Students will use WordPress to build dynamic websites that can be updated easily. Students are also introduced to PHP & MySQL, theme customization, and other CMS frameworks. 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

VCOM 4 User Interface and User Experience Design 3 Units

In this course students are introduced to the fields of User Experience Design and Interface Design. Key topics covered in this course are interaction design, mobile and desktop interface design, information architecture, user research, as well as UX planning documents such as wireframes and personas. Students learn many of the principles, processes, and techniques used to develop effective user interfaces. 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

VCOM 40 Design Shop: The Business of Design 3 Units

The Design Shop business of the Visual Communications program creates work for clients on the Las Positas College campus. This course is designed for students who are ready to produce client-based work in print and/or for the web prior to seeking employment and/or applying for transfer to a 4-year institution. Students work one-on-one or in a team with the client while refining leadership skills and the full range of visual, oral and written techniques needed to produce industry standard client-based work. Students develop creative print and/or web solutions that meet the full scope of the client's needs and that are of a quality that demonstrates the individual or team's work at industry-

standard level. Strongly Recommended: VCOM 52 (completed with a grade of "C" or higher), VCOM 53 (completed with a grade of "C" or higher), VCOM 54 (completed with a grade of "C" or higher), VCOM 55 (completed with a grade of "C" or higher), VCOM 56 (completed with a grade of "C" or higher), VCOM 57 (completed with a grade of "C" or higher). 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

VCOM 45A Digital Painting I 3 Units

Students will be introduced to fundamental techniques of digital painting as well as hardware and software considerations. Students will create paintings from observation as well as from imagination. Course will focus on translating traditional painting principals into the digital realm. Prerequisite: ARTS 2A (completed with a grade of "C" or higher). Strongly Recommended: VCOM 53 (completed with a grade of "C" or higher). 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

VCOM 45B Digital Painting II 3 Units

Students will build upon the fundamental techniques of digital painting. Students will create paintings from references as well as from imagination, paying close attention to lighting and color. Course will focus on development of style for commercial illustration. Prerequisite: ARTS 2A (completed with a grade of "C" or higher), VCOM 45A (completed with a grade of "C" or higher). Strongly Recommended: VCOM 53 (completed with a grade of "C" or higher). 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

VCOM 50 Graphic Design/Digital Media Fundamentals 3 Units

Introduction to Digital Art and Design Media and their use in the vocations of Graphic Design, Web and Device Design, Information Design, and Digital Art and Photography. An exploration of the methods of conceptual development of visual content and the language of design to direct the use of these digital tools at basic technical level to bring this content to completion in print or on screen. 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU, UC; C-ID# ARTS 250 (if taken with VCOM 51).

Degree Applicable, Credit Grading Option: OP

VCOM 51 Color Theory for Design 3 Units

A basic-level course highlighting color as an element for communication and expression in all visual fields. Covers key color systems and their relevance to graphic and other visual arts, creative and technical aspects of color available in traditional media and in the Adobe Creative Suite applications including color expression, color theory, color interaction, color psychology, color perception, using color for an ethnically diverse, international audience, color theories, color trends, color reproduction, pre-press and screen view considerations. 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU, UC; C-ID# ARTS 250 (if taken with VCOM 50).

Degree Applicable, Credit Grading Option: OP

VCOM 52 Introduction to Typography 3 Units

This course examines letterforms and fundamental typographic principles, with emphasis on the vocabulary of typographic form and its relationship to message/purpose in graphic design. Typography is the backbone of graphic design, and the ability to design effectively with type is essential for a graphic designer. Course includes applied history and theory highlighting type as an element for communication and expression. In-class focus on type legibility,

readability, and visual appropriateness. Strongly Recommended: VCOM 54 (completed with a grade of "C" or higher) and VCOM 64 (completed with a grade of "C" or higher). 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

VCOM 53 Photoshop I 3 Units

Technical and skill development course using the most recent version of Adobe Photoshop at the introductory to create and manipulate digital images, photographs and illustrations. Emphasis on basic to lower-intermediate level techniques and tools used to create image files suitable for print and screen. Design principles emphasized to create effective output through computer-based composition. Strongly Recommended: VCOM 50 (completed with a grade of "C" or higher) and/or VCOM 51 (completed with a grade of "C" or higher). 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

VCOM 54 Illustrator I 3 Units

Technical and drawing skill development course using the latest version of Illustrator at the basic- to intermediate-level to render 2- and 3-D digital drawings and illustrations. Emphasis on basic- to intermediate-level techniques and tools used to create image files suitable for print and screen. Design principles emphasized to create effective output through computer-based composition. Strongly Recommended: VCOM 50 (completed with a grade of "C" or higher). 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

VCOM 55 Web Design I 3 Units

This introductory web design course takes a visual communications approach to the creation of web sites, and the fundamental techniques required to format text, illustrations, tables, and images for the web. Emphasis is placed on appropriate design for the web - beginning with a graphic user interface balanced with HTML5 code and CSS3 hand-coding that is functional, logical, and attractive, and bringing the concept to life using Dreamweaver. The course also includes detailed instructions on how to use Dreamweaver to create web content, as well as a introduction to Content Management Systems such as Wordpress, Joomla! and Drupal. Strongly Recommended: VCOM 50 (completed with a grade of "C" or higher). 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

VCOM 58 Photoshop II 3 Units

Technical and design skill development course using Photoshop to create and manipulate images, illustrations, text and animations. Emphasis on intermediate- through advanced-level techniques and tools used to create photo-realistic composites, special effects, custom brushes, and Photoshop rendered imagery for print and screen. Prerequisite: VCOM 53 (completed with a grade of "C" or higher). Strongly Recommended: VCOM 50. 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

VCOM 60 Creative Portfolio Development & Self Promotion 3 Units

Student will develop strategies to promote oneself and one's work. Create and refine a design portfolio and resume to impress potential clients and employers. Practice effective techniques for oral and visual presentations, interviews, and client discussions. Strongly Recommended: VCOM 53 (completed with a grade of "C" or higher), VCOM 54

(completed with a grade of "C" or higher), VCOM 55 (completed with a grade of "C" or higher), VCOM 64 (completed with a grade of "C" or higher). 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

VCOM 64 InDesign I 3 Units

This introductory level course in page layout and design uses Adobe InDesign software. Students assemble a variety of pieces such as booklets, brochures, magazines, newspapers, newsletters, and other communication materials. Emphasis is on learning techniques used by graphics professionals to create full-color pieces integrating text, photos, and illustrations. Strongly Recommended: VCOM 50 (completed with a grade of "C" or higher), VCOM 52 (completed with a grade of "C" or higher). 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

VCOM 65 Elect Prepress/ Print Prod 3 Units

Culminating class in study of technical and creative design techniques necessary to produce accurate prepress files used to produce finished printed materials. Upon completion, students will show mastery of the creative process and technical skills necessary to produce individual- and team-based single- and multi-page print work to client and industry specifications. This course provides students with professional prepress and print work experience within Las Positas College and the surrounding community including participation in client briefing, Q & A, presentation, feedback and critique sessions. Strongly Recommended: VCOM 64 (completed with a grade of "C" or higher). 1.5 hours lecture, 4.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

VCOM 70 Photoshop and Lightroom for Photographers 3 Units

Learn to use Lightroom and Photoshop in a workflow designed for digital photographers. Learn Best practices for digital workflows, database management, non-destructive parametric editing, color management, and output to print, web, slideshows, and photo book. Students who have completed, or are enrolled in, PHTO 70 may not receive credit. Prerequisite: PHTO 56 (may be taken concurrently) (completed with a grade of "C" or higher). 1.5 hours lecture, 4.5 hours laboratory. AA/AS GE. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 1 Welding Camp 1 Unit

This course is designed to introduce the basics of shop safety, hand tools and welding. Fabrication of simple metal projects. Emphasis on practical uses and applications. .5 hours lecture, 1.5 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: P/NP

WLDT 55 Print Reading for Industry 2 Units

Interpreting and visualizing drawings and prints used in industrial settings. The role of prints in the digital age, geometric dimensioning and tolerancing to current standards. Foundational skills needed for print reading success, including basic mathematics, geometry principles, measurement tools, and the design process. Welding symbols and their use in manufacturing. 2 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: GR

WLDT 61A **Beginning SMAW and FCAW Theory** **1 Unit**

Theory and safety of Shielded Metal Arc (SMAW) and Flux-Core Arc (FCAW) welding of steel, flame cutting, plasma and carbon arc cutting. American Welding Society nomenclature, electrode and wire selection, job opportunities. Blueprint reading, welding symbols for welders and hazardous material regulation. Corequisite: WLDT 61AL or WLDT 61BL. 1 hour lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 61AL **Beginning SMAW and FCAW Skills Lab** **2 Units**

Skills of Shielded Metal Arc (SMAW) and Flux-Core Arc (FCAW) welding in the flat and horizontal positions to to American Welding Society code specifications. Oxy-fuel flame, plasma, and carbon arc cutting. Safe use and handling of welding equipment and consumables. Corequisite: WLDT 61A or WLDT 61B. 6 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 61B **Advanced SMAW and FCAW Theory** **1 Unit**

Theory and safety of Stick (SMAW) and Flux-core Arc (FCAW) welding of steel, flame cutting, plasma and carbon arc cutting. American Welding Society nomenclature, electrode and wire selection, job opportunities. Blueprint reading, welding symbols for welders and hazardous material regulations. Corequisite: WLDT 61AL or WLDT 61BL. 1 hour lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 61BL **Advanced SMAW and FCAW Skills Lab** **2 Units**

Advanced skills in Shielded Metal Arc (SMAW) and Flux Cored Arc (FCAW) welding of steel in the horizontal, vertical and overhead positions to A.W.S. Codes. Safety and proper use of SMAW, FCAW, oxy-fuel cutting and plasma arc cutting equipment. Blueprint usage in the welding shop environment. Prerequisite: WLDT 61AL (completed with a grade of “C” or higher). Corequisite: WLDT 61A or WLDT 61B. 6 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 62A **Beginning GTAW and GMAW Theory** **1 Unit**

Theory of fuel and inert gas welding of steel, stainless steel and aluminum alloys, Oxy-Fuel welding, Oxy fuel brazing, flame cutting, and plasma cutting. Gas Tungsten Arc (GTAW) and Gas Metal Arc (GMAW) welding equipment and supplies. Nomenclature and metallurgy of steel, stainless steel and aluminum alloys. Introduction to blueprint reading and welding symbols. Hazardous material regulations and safety data sheets. Corequisite: WLDT 62AL or WLDT 62BL. 1 hour lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 62AL **Beginning GTAW and GMAW Skills Lab** **2 Units**

Skills of TIG (GTAW) and MIG (GMAW) welding of ferrous and non-ferrous alloys in the flat and horizontal positions to A.W.S. codes. Safety and proper use of TIG and MIG equipment, oxy-fuel welding and cutting, plasma cutting. Blueprint usage in welding shop environment. Corequisite: WLDT 62A or WLDT 62B. 6 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 62B **Advanced GTAW and GMAW Theory** **1 Unit**

Theory of fuel and inert gas welding of Non-Ferrous alloys, Oxy-Fuel welding, Oxy fuel brazing, flame cutting, and plasma cutting. Gas Tungsten Arc (GTAW) and Gas Metal Arc (GMAW) welding equipment and supplies. Nomenclature and metallurgy of Non-Ferrous alloys. Introduction to blueprint reading and welding symbols. Hazardous material regulations and safety data sheets. Corequisite: WLDT 62AL or WLDT 62BL. 1 hour lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 62BL **Advanced GTAW and GMAW Skills Lab** **2 Units**

Advanced skills in Gas Tungsten Arc (GTAW) and Gas Metal Arc (GMAW) welding of ferrous and non-ferrous alloys in the horizontal, vertical and overhead positions to A.W. S. codes. Safety and proper use of TIG and MIG equipment, oxy-fuel welding and cutting, plasma cutting. Blueprint usage in welding shop environment. Pipe and tubing fit-up and welding. Prerequisite: WLDT 62AL (completed with a grade of “C” or higher). Corequisite: WLDT 62A or WLDT 62B. 6 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 63 **Welding Layout and Fitting** **2 Units**

Interpretation of welding blueprints by making welding layouts and weldment fitups. Current methods, practices, and recommended procedures. Use of jigs, fixtures, holding devices, and welding sequences. Methods of straightening and restoring dimensions to finished product. Laboratory includes SMAW, GMAW, GTAW, and FCAW welding, plasma and oxy-fuel cutting. Strongly recommended: WLDT 61BL (completed with a grade of “C” or higher) or WLDT 62BL (completed with a grade of “C” or higher). 1 hour lecture, 3 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 66 **Welding Inspection and Testing** **2 Units**

Theory and skills in performing inspections and tests using destructive and nondestructive methods. American Welding Society (AWS) codes and their role in welding inspection. The role and duties of the Certified Welding Inspector (CWI). Strongly Recommended: WLDT 61AL (completed with a grade of “C” or higher) or WLDT 62AL (completed with a grade of “C” or higher). 1 hour lecture, 3 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 67A **Welding Skills Lab** **2 Units**

Development and improvement of skills in Shielded Metal Arc (SMAW), Flux Cored Arc (FCAW), Gas Metal Arc (GMAW), and Gas Tungsten Arc (GTAW) welding. Strongly Recommended: WLDT 61AL (completed with a grade of “C” or higher) or WLDT 62AL (completed with a grade of “C” or higher) or WLDT 70 (completed with a grade of “C” or higher) or WLDT 71 (completed with a grade of “C” or higher). 6 hours laboratory.

Degree Applicable, Credit Grading Option: OP

WLDT 67B **Advanced Welding Skills Lab** **2 Units**

Advanced development and improvement of skills in Shielded Metal Arc (SMAW), Flux Cored Arc (FCAW), Gas Metal Arc (GMAW), and Gas Tungsten Arc (GTAW) welding. Strongly Recommended: WLDT 67A (completed with a grade of “C” or higher). 6 hours laboratory.

Degree Applicable, Credit Grading Option: OP

WLDT 68 Certification Preparation 2 Units

Welding skills preparation for certification testing. Theory of American Welding Society D1.1, American Society of Mechanical Engineers Section IX and American Petroleum Institute 1104. Strongly Recommended: WLDT 61AL (completed with a grade of "C" or higher) or WLDT 61BL (completed with a grade of "C" or higher) or WLDT 62AL (completed with a grade of "C" or higher) or WLDT 62BL (completed with a grade of "C" or higher) or WLDT 69A (completed with a grade of "C" or higher) or WLDT 69B (completed with a grade of "C" or higher). 6 hours laboratory.

Degree Applicable, Credit Grading Option: OP

WLDT 69A Beginning Pipe Welding 3 Units

Theory and practical application of: pipe joint preparation and design, API (American Petroleum Institute) and AWS (American Welding Society) welding codes specification for pipe and pipe fittings, analysis of joint configuration, plasma and flame cutting of pipes, wire and electrodes selections, beginning of pipe welding blue print and welding symbols, SMAW, GMAW, FCAW and GTAW of pipe joints, non-destructive and destructive test and qualitative concepts of evaluation. Welding in the 1G and 2G positions. Prerequisite: WLDT 61BL (completed with a grade of "C" or higher) or WLDT 62BL (completed with a grade of "C" or higher). 1 hour lecture, 6 hours laboratory.

Degree Applicable, Credit Grading Option: OP

WLDT 69B Advanced Pipe Welding 3 Units

Theory and practical application of: pipe joint preparation and design, API (American Petroleum Institute) and AWS (American Welding Society) welding codes specification for pipe and pipe fittings, analysis of joint configuration, plasma and flame cutting of pipes, wire and electrodes selections, beginning of pipe welding blue print and welding symbols, SMAW, GMAW, FCAW and GTAW of pipe joints, non-destructive and destructive test and qualitative concepts of evaluation. Welding in the 5G and 6G positions. Prerequisite: WLDT 69A (completed with a grade of "C" or higher). 1 hour lecture, 6 hours laboratory.

Degree Applicable, Credit Grading Option: OP

WLDT 70 Introduction to Welding 2 Units

Basic skills in Shielded Metal Arc (SMAW), Gas Tungsten Arc (GTAW), Gas Metal Arc (GTAW) and Flux Core Arc (FCAW) welding. Oxy-fuel welding and thermal cutting. Emphasis on safety, proper usage, theory and care of welding equipment. 1 hour lecture, 3 hours laboratory. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 72A Beginning Laser Welding 2 Units

This course will cover the theory and concepts associated with modern laser welding of metals and materials. The use of the laser in the manufacturing environment will be shown along with typical applications. The different types of lasers available for welding. The advantages and disadvantages of continuous power laser welding and pulsed laser welding. Strongly Recommended: MATH 71 (completed with a grade of "C" or higher) or MATH 71A (completed with a grade of "C" or higher) and/ or MATH 71B (completed with a grade of "C" or higher). 2 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 72B **Intermediate Laser Welding** **3 Units**

This course will cover the theory and applied skills associated with modern laser welding of metals and materials. Hands-on use of the laser welding equipment will be shown along with typical applications. The different types of joint configurations for welding will be covered. The tools for measuring and monitoring laser welding performance will be explored. Methods of inspection, as well as defect detection, their cause and corrective action will be discussed. Practical application of codes and specifications for industrial laser welding applications will be reviewed. Laser welding safety requirements and personal protective equipment. Prerequisite: WLDT 72A (may be taken concurrently) (completed with a grade of “C” or higher). 1 hour lecture, 6 hours laboratory.

Degree Applicable, Credit Grading Option: OP

WLDT 72C **Advanced Laser Welding** **2 Units**

This course will cover the application of modern laser welding of metals and materials. The hands-on use of the laser in the manufacturing environment will be performed. Utilization of tools for monitoring their performance will be explored. The safe and proper use continuous power laser welding and pulsed laser welding as well as the equipment and supplies will be covered. Direct measurement of temporal and spatial characteristics of the laser beam will be performed. Welding as well as metallurgy and joint configurations will be employed. Inspection, as well as defect detection, as well as their cause and corrective action will be demonstrated. Utilization of codes and specifications for industrial laser welding applications will be applied as well as welding safety requirements and personal protective equipment. Calculation of laser beam welding parameters. Prerequisite: WLDT 72B (completed with a grade of “C” or higher). 6 hours laboratory.

Degree Applicable, Credit Grading Option: OP

WLDT 73 **Welding Workplace Safety** **1 Unit**

This course provides the safety knowledge required to operate safely in a welding or construction workplace environment. This course will emphasize hazard identification, avoidance and control as a means to proactively create a safe workplace environment. OSHA safety standards will be emphasized throughout to maintain consistency with workplace environment. This course meets the 10 hour OSHA construction safety training requirements. 1 hour lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WLDT 80 **The Welding Business** **2 Units**

This course explores the combination of materials, labor and machines. This course examines the unique aspects associated with the operation of a successful welding business. This course provides a basic understanding of the flow of work through a welding operation from the initial customer contact through the completed component arriving at the customers receiving facility. The request for quotation, the processes of bidding on work, estimating, quotations, contract documents, codes, specifications, customer requirements, manufacturing travelers, quality control, manufacturing methods, labor, raw material sources, subcontractors, finishing, transportation, materials handling, packaging, and the process for getting paid for doing the work. Strongly Recommended: 61AL (completed with a grade of “C” or higher) or WLDT 62AL (completed with a grade of “C” or higher). 2 hours lecture. Transfer: CSU.

Degree Applicable, Credit Grading Option: OP

WMST 2 Global Perspective of Women 3 Units

Examines the cultural, historical, political and economic experiences of women globally. Introduces feminist perspectives on a wide range of issues affecting women including globalization, war, education, work, family and religion in Asia, Africa, the Middle East and Latin America. 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: D; IGETC: 4.

Degree Applicable, Credit Grading Option: OP

Corrections to 2017-18 Catalog

- **AJ 54: Investigative Reporting-**Grading Option: GR
- **BIO 7C: Microbiology**- Prerequisite: BIO 30 with a minimum grade of C and CHEM 30A with a minimum grade of C or CHEM 1A with a minimum grade of C. Strongly Recommended: BIO 7A, ENG 1A
- **KIN 15: First Aid & Safety-** Grading Option: GR
- **KIN WTW1: Women's Weight Training One-** Grading Option: GR
- **MATH 55A, MATH 65 and MATH 65B**- Course Description Correction: "AA/AS GE" Removed
- **MATH 39**: Course is not UC Transferable
- **MUS 39: Musical Theater Workshop-** 2 Units, 2 Hours Lecture
- **PSYC 3: Introduction to Social Psychology-** Prerequisite: PSYC 1 with a minimum grade of C
- **PSYC 25: Research Method**s- Prerequisite: PSYC 1 (completed with a grade of "C" or higher) and MATH 40 (completed with a grade of "C" or higher) (may be taken concurrently) or MATH 44 (completed with a grade of "C" or higher).
- **Course missing from catalog:**

  PCN 19 A Case Management Approach to Addiction, Recovery and Prevention 3 Units

  Introductory course in case management specific to addiction, recovery and prevention processes used in various occupational field placements, e.g., county mental health clinics, hospitals, drug and alcohol treatment facilities, nonprofit health and human services agencies. Basic terminology used in alcohol, psychoactive drugs and other related addiction terms will be covered. Self-help groups such as Alcoholics Anonymous (AA), Overeaters Anonymous (OA), Adult Children of Alcoholics (ACA), Co-dependents Anonymous (CoDA), Gamblers Anonymous (GA), and Narcotics Anonymous (NA) will be discussed. Current models of prevention, treatment planning, client monitoring and documentation in collaboration with other staff, e.g., physicians, social workers, counselors, will be emphasized. Hands-on approach in learning how to formulate measurable goals and objectives to client recovery. 3 hours lecture. Transfer: CSU

  Degree Applicable, Credit Grading Option: OP