

# LAS POSITAS COLLEGE


## Catalog Addendum

### Fall 2015-Spring 2016



Inside cover when printed

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**Las Positas College  
Catalog Addendum  
Fall 2015 through Spring 2016**

## What is an Addendum?

Las Positas College publishes a full Catalog every two years. For the years in between, an Addendum is published. The Addendum contains important information that has been updated in the past year. The next full Catalog will be published in Spring 2016 and will span Fall 2016-Spring 2018.

The following question and answer section is designed to respond to common questions about how to use this important document. As always, it is recommended that students seek the guidance of counselors for course, program and transfer planning. In this way, you will be able to access all the most up-to-date information available.

Q. Why do we have an Addendum?

A. The College is constantly updating curriculum, program requirements and College information. It is important to have a print and web document that helps students and staff locate all of these changes.

Q. How do I use the Addendum?

A. The Addendum is to be used alongside the 2014-16 catalog, not in isolation. Check your program and course of interest to see if there have been any changes. Meet with your counselor if you have questions about how these changes affect your academic plan.

Q. Does the Addendum supersede the Catalog?

A. The Addendum is just that: an addition to the 2014-16 Catalog. Whatever is listed in the Addendum in terms of new courses and/or new program requirements does supersede what is in the Catalog. However, in terms of Catalog rights, if you began a program in Fall 2014 or Spring 2015, you will be able to adhere to the requirements listed in the 2014-2016 Catalog as long as you have no break in enrollment until the time of your completion. Once again, if you have questions about programs and courses, see a counselor.

Q. Where can I find the Addendum?

A. The Addendum is on the web and can be accessed from the LPC Home Page ([www.laspositascollege.edu](http://www.laspositascollege.edu)). There are hard copies in the Library, Counseling Center, LPC Career Center, and Division offices. If you would like to purchase an Addendum, they are available for sale in the Bookstore.

We hope this document will be helpful to you. It has been prepared as carefully as possible to include all information available as of December 31, 2014. The online version of the Addendum may contain more recent changes than the printed version. Las Positas College and the Chabot-Las Positas Community College reserve the right to make changes as needs require, and to change, without notice, any of the information, requirements, and regulations in the College Catalog and the Catalog Addendum. If you have questions about the content or any other part of this document, please contact the counseling office at 925.424.1400 and ask to see or speak with a counselor.

(3/30/2015)

## ACADEMIC CALENDAR

<b>FALL 2015 SEMESTER</b>	
August 17	REGULAR FULL TERM INSTRUCTION BEGINS
August 22	Instruction begins for Saturday classes
September 5	No Saturday classes
September 7	Labor Day Holiday
November 9	Veterans' Day Holiday
November 25-27	Thanksgiving holiday
November 28	No Saturday classes
December 11	Last Day of Instruction
December 12	Saturday Final Exams
December 14	Final Exams
December 15	Final Exams
December 16	Final Exams
December 17	Final Exams
December 18	Final Exams
December 21 – January 3	Winter Break – Campus Closed
<b>SPRING SEMESTER 2016</b>	
January 18	HOLIDAY – Martin Luther King, Jr.
January 19	REGULAR FULL TERM INSTRUCTION BEGINS
January 23	Instruction begins for Saturday classes
February 12 – February 15	Presidents' Weekend Holiday (No Saturday classes)
March 28 – April 1	Spring Break
May 20	Last Day of Instruction
May 21	Saturday Final Exams
May 23	Final Exams
May 24	Final Exams
May 25	Final Exams
May 26	Final Exams
May 27	Final Exams
May 30	Memorial Day Holiday

## Chabot-Las Positas Board of Trustees

The Chabot-Las Positas Board of Trustees governs the Chabot-Las Positas Community College District and is responsible for all policy decisions. The Board meets twice a month.

### Board Members as of Spring 2015

Name/Position	Area Represented	Year First Elected
Donald L. "Dobie" Gelles/ <i>President</i>	Area 4: Castro Valley, portions of Oakland	1998
Carlo Vecchiarelli / <i>Secretary</i>	Area 5: Pleasanton, Dublin, Sunol	2004
Isobel F. Dworsky	Area 2: San Leandro	1985
Arnulfo Cedillo, Ed. D.	Area 2: Union City, South Hayward	1985
Hal G. Gin, Ed. D.	Area 6: Hayward, San Lorenzo	2005
Will L. "Will" Macedo	Area 7: Livermore, portions of Pleasanton	2015
Marshall Mitzman, Ph. D.	Area 1: Hayward	2008

### Trustees Emeriti

E.J. "Jay" Chinn.....	1961-1985
Elva Cooper .....	1987-1996
Gary R. Craig .....	1985-2005
Fred M. Duman.....	1967-1991
Ann H. Duncan .....	1971-1984
Dorothy S. Hudgins .....	1967-1987
Lawrence R. Jarvis.....	1975-1987
Alison S. Lewis, Ph.D. ....	1991-2008
James S. Martin.....	1969-1975
Edward E. Martins.....	1961-1967
Barbara F. Mertes .....	2000-2014
Barry L. Schrader.....	1987-2000
Fredrick T. Sullivan .....	1961-1971
Linda M. Tangren .....	1989-1998
William A. Tenney .....	1961-1967
L. Arthur Van Etten .....	1961-1985
Margaret R. Wiedman .....	1977-1989

## Program Level Student Learning Outcomes

As part of its accreditation, Las Positas College focuses on Student Learning Outcomes. Student Learning Outcomes, or SLOs, are the results or evidence of student learning. They demonstrate the extent to which student performance meets expectations of learning.

These results, to be collected at the course, program and college levels, will be shared widely and used for the improvement of teaching and learning and for the improvement of the college as a whole.

These are the current Program level Student Learning Outcomes. For more information, see the Student Learning Outcomes webpage at:

<http://www.laspositascollege.edu/slo/>

Program	Outcome(s)
Accounting Technician Certificate of Achievement	Upon completion of this certificate, students will be able to perform variety of functions in an accounting department including: maintain and update financial records, prepare and analyze financial statements, review bookkeepers' and clerks' work for accuracy and completeness, prepare individual income tax returns containing schedule A, B, C, D and E, maintain cost records and prepare and analyze budgets.
Administration of Justice - AA	Upon completion of the AJ degree program, the student will be academically prepared for a California Peace Officer Standards and Training Commission basic training academy.
Administrative Assistant - AA	Complete business-related documents using the various functions—basic, intermediate, and advanced—of the software programs: Word, Excel, PowerPoint.
Administrative Assistant - Certificate of Achievement	Demonstrate the ability to successfully use basic English language skills (grammar, punctuation, capitalization, etc.) in business documents.
Administrative Medical Assistant - Certificate of Achievement	Students will demonstrate an understanding of basic anatomy, physiology, and disease processes of the human body as it relates to patient medical history
	Students will demonstrate competency in writing, information literacy, and oral communication.
Anthropology - AA-T	Students will be able to contrast the fundamental ways in which cultures differ from one other
	Students will be able to use anthropological research methods to gather data (including research in contemporary journals, field work, and the systematic analysis of findings).
Art - AA (Emphasis in Painting)	Students will demonstrate an understanding of art and design concepts and communicate using visual media.
Automotive Electronics Technology - AS	Student will be able to follow safety guidelines while employed in an automotive related job.
	Student should be able to use automotive knowledge to diagnose various automotive concerns.
Automotive Service Technician - Certificate of Achievement	Student will be able to follow safety guidelines while employed in an automotive related job.
	Student should be able to use automotive knowledge to diagnose various automotive concerns.
Automotive Technician - Certificate of Achievement	Student will be able to follow safety guidelines while employed in an automotive related job.
	Student should be able to use automotive knowledge to diagnose various automotive concerns.
Biology - AA	Students who complete a major in biology should be able to demonstrate proficiency in standard biology lab techniques.



Program	Outcome(s)
	Students will conduct an independent research project and write a scientific report analyzing the results.
	Students will demonstrate proficiency on lecture exams.
Biology: Allied Health - AA	Students will conduct an independent research project.
	Students will be able to solve basic math-based problems related to Allied Health.
	Students will demonstrate writing proficiency on research papers or projects.
Bookkeeping Career Certificate	Upon completion of this certificate, students will be able to perform a variety of functions in an accounting department, including; using accounting software to analyze and record financial transactions, analyze payroll transactions, prepare trial balance, file payroll tax returns, prepare and analyze invoices, calculate interest rates, shipping terms and prepare financial statement.
Business - AS	Demonstrate knowledge of business operations, the business organization, business environments, and business procedures.
	Compare and contrast ethical standards and best practices of social responsibility to business situations.
	Explain the functions of all business operations and identify the resources needed in each area.
Business Administration (Transfer Prep) - AA	Demonstrate knowledge of business operations, the business organization, business environments, and business procedures.
	Compare and contrast ethical standards and best practices of social responsibility to business situations.
	Explain the functions of all business operations and identify the resources needed in each area.
	List and explain the factors of production, the external business environments and apply their influence in specific business problems.
Business Entrepreneurship - AA	Demonstrate knowledge of business operations, the business organization, business environments, and business procedures.
	Describe the nature and characteristics of successful small businesses.
	Define "Competitive Advantage" and discuss actions a small business should use to achieve it.
	Construct a business plan, essential marketing plan, and the basic financial documents needed for a small business.
Business Entrepreneurship Certificate of Achievement	Describe the nature and characteristics of successful small business persons.
	Summarize the responsibilities of small business owners in selecting, motivating, training, and supervising employees.
	Define and provide concrete examples of the "Competitive Advantage" concept that a small business must achieve in order to succeed.
	Compare and contrast the impact of the external business environments on small businesses.
	Construct a business plan, essential marketing plan, and basic financial documents for a small business.
	Detail key business procedures relevant to a specific problem using appropriate technology.
Business Workforce Proficiency Career Certificate	Explain group dynamics as they apply to an individual working effectively within a group and within teams
	Apply standard business English to oral and written communications, including grammar, punctuation, mechanics, vocabulary, style, media, and usage.
	Develop business communications that present information in an organized and concise manner.



Program	Outcome(s)
	Identify the primary business operations, business organizational options, and business procedures.
	Describe the work ethic needed for success in today's work environment.
Chemistry - AS Transfer Prep	Any student getting this degree should have a basic understanding of general chemistry as measured by the standardized General Chemistry test from the American Chemical Society.
	Any student completing this degree should have a basic understanding of organic chemistry as measured by the standardized Organic Chemistry test from the American Chemical Society.
Chemistry Education - AA	Any student getting this degree should have a basic understanding of general chemistry as measured by the standardized General Chemistry test from the American Chemical Society.
	Any student completing this degree should have a basic understanding of organic chemistry as measured by the standardized Organic Chemistry test from the American Chemical Society.
CNT: Cisco Network Associate - Certificate of Achievement	Configure a WAN with routing, Troubleshoot WAN configuration.
	Configure a LAN with routing, Troubleshoot LAN configuration.
CNT: Computer Desktop OS Security - Career Certificate	At the completion of the program, students will be able to repair computers (hardware and software), install, maintain and secure networks (both Windows and Linux); and install and configure Cisco routers.
CNT: Computer Forensics Examiner - Career Certificate	Image and examine evidence in a forensically sound manner.
	Perform evidence examination and evaluation and present in a standard forensic case report.
CNT: Computer Network Administration (Microsoft) - Career Certificate	At the completion of this program, students will be able to repair computers, install MS Windows networks including Active Directory, and install current desktop operating systems such as Linux
CNT: Computer Network Technician - Certificate of Achievement	Computer Repair, with emphasis on hardware CNT basic.
	A+ CompTIA Elective
CNT: Emerging Technologies - Career Certificate	Create virtualization project design criteria.
	Create WLAN design criteria.
CNT: Network and Wireless Security - Career Certificate	Evaluate network security risks and responses.
	Create WLAN design criteria.
CNT: Network Security and Administration - AS	Configure a LAN with routing, Troubleshoot LAN configuration.
	Configure a WAN with routing, Troubleshoot WAN configuration.
CNT: TCP-IP Network Analysis - Career Certificate	Report TCP-IP communication trace analysis.
Computer Applications Software (Microcomputers) - Certificate of Achievement	Students will be able to demonstrate basic computer literacy skills.
Computer Information Systems - AA	Students will be able to demonstrate basic computer literacy skills.
Computer Programming - AS	Students will be able to direct computer operations by writing detailed instructions to using computer programming languages.
Computer Programming - Certificate of Achievement	Students will be able to direct computer operations by writing detailed instructions to using computer programming languages.
Computer Programming for the Web - AS	Students will be able to direct computer operations by writing detailed instructions in computer languages.

Program	Outcome(s)
Computer Programming for the Web - Certificate of Achievement	Students will be able to direct computer operations by writing detailed instructions in computer languages.
Computer Science - AS	Students will be able to direct computer operations by writing detailed instructions in computer languages to solve a variety of problems.
ECD: Associate Teacher - Certificate of Achievement	Synthesize child development research and theories; apply principles with consideration for children's varying characteristics, needs and the multiple interacting influences on children's development.
	Intentionally design inclusive, culturally and linguistically appropriate curriculum to promote positive development for all young children, based on child development, observation and reflection.
	Compare and contrast diverse cultural values, child rearing practices, attitudes towards play and education by developing respectful reciprocal relationships in order to work effectively with children, families, co-workers and community.
	Assess children's development through observation, documentation, reflection and interpretation to guide curriculum and intentional teaching.
ECD: Basic Teacher - Certificate of Achievement	Synthesize child development research and theories; apply principles with consideration for children's varying characteristics, needs and the multiple interacting influences on children's development.
	Intentionally design inclusive, culturally and linguistically appropriate curriculum to promote positive development for all young children, based on child development, observation and reflection.
	Compare and contrast diverse cultural values, child rearing practices, attitudes towards play and education by developing respectful reciprocal relationships in order to work effectively with children, families, co-workers and community.
	Assess children's development through observation, documentation, reflection and interpretation to guide curriculum and intentional teaching.
	Demonstrate practices that maintain standards of health, nutrition, and safety in early childhood settings.
	Apply ethical standards of behavior accepted by the profession of early childhood education using ongoing self-reflection to guide practices.
	Utilize observation and evaluation processes/tools to apply and implement developmentally appropriate practices in an early care and education setting using knowledge, skills and professional dispositions that promote the development and learning of all young children.
Identify the processes of and contributions to systemic and internalized oppression and privilege. Utilize this information, along with personal reflection, to identify strategies to more effectively educate children in a pluralistic society.	
ECD: Early Childhood Development - AA	Synthesize child development research and theories; apply principles with consideration for children's varying characteristics, needs and the multiple interacting influences on children's development
	Intentionally design inclusive, culturally and linguistically appropriate curriculum to promote positive development for all young children, based on child development, observation and reflection.
	Compare and contrast diverse cultural values, child rearing practices, attitudes towards play and education by developing respectful reciprocal relationships in order to work effectively with children, families, co-workers and community.
	Assess children's development through observation, documentation, reflection and interpretation to guide curriculum and intentional teaching.
	Demonstrate practices that maintain standards of health, nutrition, and safety in early childhood settings.
	Apply ethical standards of behavior accepted by the profession of early childhood education using ongoing self-reflection to guide practices

Program	Outcome(s)
	<p>Utilize observation and evaluation processes/tools to apply and implement developmentally appropriate practices in an early care and education setting using knowledge, skills and professional dispositions that promote the development and learning of all young children.</p> <p>Identify the processes of and contributions to systemic and internalized oppression and privilege. Utilize this information, along with personal reflection, to identify strategies to more effectively educate children in a pluralistic society.</p>
<p>ECD: Early Childhood Education AS-T</p>	<p>Synthesize child development research and theories; apply principles with consideration for children's varying characteristics, needs and the multiple interacting influences on children's development.</p> <p>Using Content Knowledge and Developmentally Effective Approaches to Build Meaningful Curriculum Intentionally design inclusive, culturally and linguistically appropriate curriculum to promote positive development for all young children, based on child development, observation and reflection.</p> <p>Compare and contrast diverse cultural values, child rearing practices, attitudes towards play and education by developing respectful reciprocal relationships in order to work effectively with children, families, co-workers and community.</p> <p>Assess children's development through observation, documentation, reflection and interpretation to guide curriculum and intentional teaching.</p> <p>Demonstrate practices that maintain standards of health, nutrition, and safety in early childhood settings.</p> <p>Apply ethical standards of behavior accepted by the profession of early childhood education using ongoing self-reflection to guide practices.</p> <p>Utilize observation and evaluation processes/tools to apply and implement developmentally appropriate practices in an early care and education setting using knowledge, skills and professional dispositions that promote the development and learning of all young children.</p>
<p>ECD: Early Childhood Intervention - AA</p>	<p>Synthesize child development research and theories; apply principles with consideration for children's varying characteristics, needs and the multiple interacting influences on children's development</p> <p>Intentionally design inclusive, culturally and linguistically appropriate curriculum to promote positive development for all young children, based on child development, observation and reflection.</p> <p>Compare and contrast diverse cultural values, child rearing practices, attitudes towards play and education by developing respectful reciprocal relationships in order to work effectively with children, families, co-workers and community.</p> <p>Assess children's development through observation, documentation, reflection and interpretation to guide curriculum and intentional teaching.</p> <p>Demonstrate practices that maintain standards of health, nutrition, and safety in early childhood settings.</p> <p>Utilize observation and evaluation processes/tools to apply and implement developmentally appropriate practices in an early care and education setting using knowledge, skills and professional dispositions that promote the development and learning of all young children.</p> <p>Identify the processes of and contributions to systemic and internalized oppression and privilege. Utilize this information, along with personal reflection, to identify strategies to more effectively educate children in a pluralistic society.</p> <p>Students will develop a personal ECD philosophy after reviewing ECD philosophies and program approaches.</p>
<p>ECD: Early Childhood Intervention Assistant - Certificate of Achievement</p>	<p>Synthesize child development research and theories; apply principles with consideration for children's varying characteristics, needs and the multiple interacting influences on children's development</p>

Program	Outcome(s)
	<p>Compare and contrast diverse cultural values, child rearing practices, attitudes towards play and education by developing respectful reciprocal relationships in order to work effectively with children, families, co-workers and community.</p> <p>Assess children’s development through observation, documentation, reflection and interpretation to guide curriculum and intentional teaching.</p> <p>Demonstrate practices that maintain standards of health, nutrition, and safety in early childhood settings.</p> <p>Utilize observation and evaluation processes/tools to apply and implement developmentally appropriate practices in an early care and education setting using knowledge, skills and professional dispositions that promote the development and learning of all young children.</p> <p>Intentionally design inclusive, culturally and linguistically appropriate curriculum to promote positive development for all young children, based on child development, observation and reflection.</p>
<p>ECD: Family Child Care - Certificate of Achievement</p>	<p>Synthesize child development research and theories; apply principles with consideration for children's varying characteristics, needs and the multiple interacting influences on children's development.</p> <p>Intentionally design inclusive, culturally and linguistically appropriate curriculum to promote positive development for all young children, based on child development, observation and reflection.</p> <p>Compare and contrast diverse cultural values, child rearing practices, attitudes towards play and education by developing respectful reciprocal relationships in order to work effectively with children, families, co-workers and community.</p> <p>Assess children’s development through observation, documentation, reflection and interpretation to guide curriculum and intentional teaching.</p>
<p>Engineering - transfer</p>	<p>The student will demonstrate the ability to use knowledge of mathematics and science in engineering applications.</p>
<p>English - AA</p>	<p>Students can write a focused thesis statement.</p> <p>Students can write a paragraph whose topic sentence, supporting information, and analysis speak to the same point.</p> <p>Students can use library resources to find relevant and credible information on a research topic.</p> <p>Students can appropriately document outside information when integrated into their essay.</p> <p>Students can express ideas using a variety of sentence structures.</p> <p>Students can recognize an author’s main idea in college-level reading.</p> <p>Students can write a summary that restates main and supporting ideas.</p> <p>Students can recognize and evaluate implicit and explicit arguments in a text.</p> <p>Students can identify different types of fallacious arguments.</p> <p>Students can analyze an author’s use of literary techniques to develop a theme.</p> <p>Students can appreciate literature as an art form that helps readers understand the human condition.</p>
<p>English - AA-T</p>	<p>Students can appreciate literature as an art form that helps readers understand the human condition.</p> <p>Students can appropriately document outside information when integrated into their essay.</p> <p>Students can identify different types of fallacious arguments.</p> <p>Students can recognize and evaluate implicit and explicit arguments in a text.</p> <p>Students can use library resources to find relevant and credible information on a research topic.</p>

Program	Outcome(s)
Enology - AS	Student will be proficient in all season winery practices required in a working winery.
Enology - Certificate of Achievement	Student will be proficient in all season winery practices required in a working winery.
Environmental Science - AS	Students must be able to perform and analyze a home Energy Audit.
Environmental Studies - AA	Students must be able to perform and analyze a home Energy Audit.
Fire Service Technology - AS	Students will gain knowledge safety, rescue, emergency medical operations and hazardous materials.
Fire Service Technology - Certificate of Achievement	Students will gain knowledge safety, rescue, emergency medical operations and hazardous materials.
Geography - AA-T	Demonstrate knowledge of global physical and environmental processes, locations and develop an appreciation of landscapes.
	Assemble and analyze spatial information (maps, data, surveys, qualitative observations, etc.), using traditional and modern mapping technology methods
Geology - AS-T	Upon completion of this degree, students should be able to demonstrate proficiency in basic earth processes (e.g., plate tectonics).
	Upon completion of this degree, students should be able to demonstrate proficiency in the evaluation and identification of basic earth materials (e.g., rocks and minerals).
Health and Human Services - Certificate of Achievement	Students will evaluate personal motives, values and philosophy to work with diverse populations in fields of the helping professions.
	Students will explain the practice of human services in terms of the helping process professional and ethical concerns and working within a system.
History - AA-T	Students will demonstrate critical thinking as they identify and use various types of historical sources.
Horticulture - AS	The successful student will be able to accurately identify a set of plant material; use that plant material in a landscape design; and prepare a maintenance schedule for the chosen plant materials.
Horticulture - Certificate of Achievement	The successful student will be able to select plant materials for a given landscape based on water requirements, soil type, pest and disease resistance, growth habits, and design requirements.
Humanities - AA	Students will be able to express informed aesthetic responses to works of art.
	Students will be able to interpret and apply theoretical methods used in the humanities.
Interior Design - AS	Upon completion of INTD AS-transfer program, students will be able to demonstrate the skills and knowledge learned through coursework to meet CSU transfer requirements.
Interior Design - Certificate of Achievement	The student will be prepared to work in a professional design company with both business and design education.
International Studies - AA	Students will critically apply ethical standards to identify problems and create solutions.
Physical Education (Kinesiology) - AA	Students will be able to perform a wide variety of motor activities at a range of skill levels from beginning to advanced.
	Students will be able to identify several career pathways associated with the Kinesiology/Kinesiology with an Emphasis in Pre-Physical Therapy degree(s).
	Students will have completed the necessary coursework for preparation to transfer into a four-year Kinesiology program.
Liberal Arts and Sciences - AA	Students will critically apply ethical standards to identify problems and create solutions.
Marketing - AA	Demonstrate knowledge of business operations, the business organization, business environments, and business procedures.

Program	Outcome(s)
	Compare and contrast the processes used to determine the (1) demand for products and services to be offered by a firm and the (2) identification of appropriate target markets.
	Detail available pricing strategies and prepare comparisons of strategies to achieve a firm's market objectives.
	Construct a detailed marketing plan, which includes all aspects of the marketing mix.
Mass Communications - Certificate of Achievement: Journalism	Students will participate in the creation of student media, following a timeline for production, editing and formatting content, and publishing and distributing.
	Students will demonstrate an understanding of different aspects of the role of media in society through research and writing.
	Recognize, acquire, produce, and distribute content for the weekly college newspaper, The Express, demonstrating increasing understanding of standards of journalism and design.
Mass Communications - AA	Students will demonstrate an understanding of different aspects of the role of media in society through research and writing.
	Students will participate in the creation of student media, following a timeline for production, editing and formatting content, and publishing and distributing.
Mathematics - AS-T	Students will use mathematical reasoning to solve problems and a generalized problem solving process to work word problems.
	Students will learn mathematics through modeling real-world situations.
	Students will read, write, listen to, and speak mathematics with understanding.
	Students will use appropriate technology to enhance their mathematical thinking and understanding, solve mathematical problems, and judge the reasonableness of their results.
	Students will demonstrate the ability to use symbolic, graphical, numerical, and written representations of mathematical ideas.
Music - AA	Students will demonstrate an adherence to recognized standards of professionalism in a rehearsal setting.
	By the end of the degree program, students will demonstrate the ability to play or sing on pitch in a section and ensemble as directed by a conductor.
Music: Teaching Beginning Piano - Certificate of Achievement	Students who successfully complete the Certificate of Achievement in Teaching Beginning Piano should be able to present new pieces to their students by explaining the form, compositional technique, style and mood of the piece, as well as the intent of the composer.
Music: Teaching Intermediate Piano - Certificate of Achievement	Students who successfully complete the Certificate of Achievement in Teaching Intermediate Piano should be able to present new pieces to their students by explaining the form, compositional technique, style and mood of the piece, as well as the intent of the composer.
Occupational Safety and Health - AS	Design programs to control, eliminate, and prevent disease or injury caused by chemical, physical, radiological, and biological agents or ergonomic factors as well as prepare an emergency response plan.
	Apply a working knowledge of mathematics and the sciences to conduct experiments and to analyze and interpret data to solve safety and health related issues
Occupational Safety and Health - Certificate of Achievement	Design programs to control, eliminate, and prevent disease or injury caused by chemical, physical, radiological, and biological agents or ergonomic factors as well as prepare an emergency response plan.
Philosophy - AA-T	Student will demonstrate the ability to respond to philosophical writing and ideas discussed in class by describing philosophical arguments, evaluating those arguments, and applying them with accuracy and creativity to contemporary conditions.

Program	Outcome(s)
Photography - Career Certificate	Upon successful completion of coursework to complete a certificate, or to transfer, students should be able to appropriately visualize and produce entry level professional, commercial, and fine art photographs that represent fully developed concepts of form, medium and content.
	The student should also be able to appropriately visualize and accurately construct lighting designs utilizing artificial studio lighting and natural, available light in film and digital photographs.
	The student should also be able to critique and discuss film and digital photographic images that represent fully developed concepts of form, medium and content.
Physical Education (Kinesiology) - AA	Students will be able to perform a wide variety of motor activities at a range of skill levels from beginning to advanced.
	Students will be able to identify several career pathways associated with the Kinesiology/Kinesiology with an Emphasis in Pre-Physical Therapy degree(s).
	Students will have completed the necessary coursework for preparation to transfer into a four-year Kinesiology program.
Physical Education, Coaching - Career Certificate	Understand the primary responsibilities of coaches at various levels, including youth and high school.
	Understand organizational strategies for team work and planning.
	Understand the role of officials in sports.
	Become aware of liability responsibilities of a coach.
Physical Education, Sports Medicine - Career Certificate	Students will be able to list careers associated with the field of Sports Medicine.
	Students will be able to demonstrate prevention, assessment, and treatment options relating to athletic injuries.
Physics - AS	Analyze physical situations quantitatively by selecting relevant equations and models, modifying them as appropriate, and using them correctly to solve problems.
Project Management - Career Certificate	Students will be able to demonstrate basic computer literacy skills.
Psychology - AA-T	Demonstrate effective written communication skills by discussing course content and using APA style.
	Demonstrate an understanding of and apply basic research methods in psychology including research design, hypothesis testing, and data interpretation.
	Demonstrate critical thinking skills to assess real-world issues and to solve problems related to behavioral and mental processes.
	Demonstrate knowledge of the major concepts, theories, and empirical findings in psychology. This understanding should focus on the biological basis and development of behaviors and mental processes.
	Demonstrate an understanding of the value of sociocultural diversity and individual differences.
	Apply theories, concepts and findings in psychology for self-understanding, self-improvement, and lifelong learning.
Radio Communications - Career Certificate	Students to be trained in an all-digital environment, using multi-platform sources to be able to deliver media in a high definition, streaming, mobile media in all broadcasting mediums.
	Students will create a marketing plan for all potential advertising clients as a web presence and use metrics such as adsense and metatags to show high web traffic for buyers.
Retail Management Certificate of Achievement	Demonstrate the integration of basic management theories into supervisory and management functions.



Program	Outcome(s)
	<p>List current problems related to human behavior in organizations and detail management practices effective in managing those issues.</p> <p>Differentiate threshold issues involved in legal, ethical, and social responsibilities of management.</p> <p>Identify key business procedures relevant to a specific problem using appropriate technology.</p> <p>Integrate basic management theories into supervisor and management functions.</p> <p>Summarize measures that can be taken by individuals and organizations to correct organizational dysfunctions.</p> <p>Determine the demand for products and services offered by a firm and identify potential customers.</p> <p>List resources and strategies for monitoring trends which help identify the need for new products and services.</p>
Retailing Certificate of Achievement	<p>Identify the primary business operations, business organizational options, and business procedures.</p> <p>Determine the demand for products and services offered by a firm and identify potential customers.</p> <p>Compare and contrast the various pricing strategies.</p> <p>Develop pricing strategies with the goal of maximizing the firm's profits and/or market share while ensuring customer satisfaction.</p> <p>Identify distinctions between distribution channels.</p> <p>Explain promotional mixes and effective strategies for each.</p> <p>Summarize measures that can be taken by individuals and organizations to correct organizational dysfunctions.</p> <p>List resources and strategies for monitoring trends which help identify the need for new products and services.</p>
Sociology - AA-T	<p>Analyze and describe the major concepts, theoretical perspectives, empirical findings, and historical trends in sociology.</p> <p>Demonstrate critical thinking and analytic skills in the application of social theory to solve problems that arise in institutional and societal contexts</p>
Social Science (General) - AA	Students will critically apply ethical standards to identify problems and create solutions.
Speech - AA	Upon completion of the Communication degree, students will be able to communicate effectively in all communication settings and occasions, and have an understanding of all audiences.
Supervisory Management Certificate of Achievement	<p>List the primary responsibilities of a supervisor in business today.</p> <p>Identify appropriate information compilation, reporting, storage and retrieval systems for common business situations.</p> <p>Demonstrate effective strategies for team work, planning, organizing, leading, and controlling human resources.</p> <p>Analyze basic business documents to detect problems within an area of supervision.</p>
Theater Arts - AA	Students will be able to critically analyze the artistic elements in productions, looking at design, acting, directorial choices, as well as personal performance processes.
Transfer to CSU--CSU GE Breadth - Certificate of Achievement	Students will critically apply ethical standards to identify problems and create solutions.
Transfer to CSU or UC--IGETC - Certificate of Achievement	Students will critically apply ethical standards to identify problems and create solutions.

Program	Outcome(s)
Visual Communications - AA	Demonstrate a sophisticated level of visual literacy and an intermediate-level of technical competence in creating client-based graphic design work developed with digital software.
	Demonstrate the ability to judge quality and effectiveness of design projects
Visual Communications - Certificate of Achievement	Demonstrate a sophisticated level of visual literacy and technical competence in creating client-based graphic design work developed with digital software.
	Demonstrate the ability to judge quality and effectiveness of design projects, especially one's own, when creating an industry-standard portfolio that can lead to a visual design career
Viticulture - AS	Student will have be proficient in the seasonal requirements of a working vineyard.
Viticulture - Certificate of Achievement	Student will have be proficient in the seasonal requirements of a working vineyard.
Web Development - Career Certificate	Students will be able to create basic web pages that contain text (utilizing different fonts and colors), hyperlinks to other web sites, graphic images and sound.
	Students will be able to create web pages that incorporate JavaScript controls.
Welding Technology - AS	Operate safely in a welding workplace environment.
	Skills necessary to pass a standard industry welding certification test.
Welding Technology - Certificate of Achievement	Operate safely in a welding workplace environment.
	Skills necessary to pass a standard industry welding certification test.

## Degrees

As this Addendum goes to the printer, a number of degrees have been submitted to the state, but have not yet been approved. Please check the online version of the Addendum, or check with a counselor for the most up-to-date information.

## New Transfer Opportunities

### PRESS RELEASE March 17, 2015

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### California Community Colleges forges guaranteed transfer agreement with nine historically black colleges and universities

*SACRAMENTO, Calif.* – Beginning Fall 2015, California community college transfer students who meet certain academic criteria will be guaranteed admission to nine historically black colleges and universities, thanks to an agreement the California Community Colleges Board of Governors and the leaders of the institutions signed at the board's meeting today.

"The California Community Colleges is working on multiple fronts to create avenues of opportunity for our students," said California Community Colleges Board of Governors President Geoffrey L. Baum. "This agreement opens a new and streamlined transfer pathway for our students to some of the finest and culturally diverse institutions of higher learning in the United States. I thank our nine partners for working with us to make it possible."

The nine HBCUs participating in the agreement are:

- [Bennett College](#) in Greensboro, N.C.
- [Dillard University](#) in New Orleans, La.
- [Fisk University](#) in Nashville, Tenn.
- [Lincoln University of Missouri](#) in Jefferson City, Mo.
- [Philander Smith College](#) in Little Rock, Ark.
- [Stillman College](#) in Tuscaloosa, Ala.
- [Talladega College](#) in Talladega, Ala.
- [Tuskegee University](#) in Tuskegee, Ala.
- [Wiley College](#) in Marshall, Texas.

Under the agreement, students who apply to the schools and obtain a transfer-level associate degree with a GPA of 2.5 or higher and complete either the [University of California Intersegmental General Education Transfer Curriculum](#), or the [California State University General Education Breadth pattern](#), will be guaranteed admission with junior standing.

A second option to earn guaranteed admission requires transfer students to earn 30 or more CSU or UC transferrable units with a GPA of 2.5 or higher.

Other advantages conferred to transfer students under the agreement include priority consideration for housing, consideration for transfer scholarships for students with a 3.2 or higher GPA, and pre-admission advising.

For certain majors, students may need to fulfill additional prerequisites and other requirements.

Eight of the participating colleges and universities are private institutions. Lincoln University of Missouri is public, and will offer in-state tuition for California community college transfer students.

Today's agreement supports a White House [initiative](#), led by Dr. George Cooper, to strengthen and expand the capacity of HBCUs to provide quality higher education to students.

"California community college students and the nine participating schools will benefit immensely from the agreement," said Cooper. "The schools will have an even larger pool of gifted students knocking on their doors and California community college students will be guaranteed transfer to four-year institutions with rich histories, traditions and track records of success."

HBCUs were founded to serve the higher education needs of African-American students, though they are open to students of any ethnicity.

These colleges and universities are typically smaller in student size than other schools. Many classes are taught by professors rather than teaching assistants in a nurturing and supportive environment with many opportunities for student leadership development.

"We applaud Chancellor Brice W. Harris and the California Community Colleges for working to ensure that all community college students have a guaranteed pathway toward their academic goals," said Walter Bumphus, president of the [American Association of Community Colleges](#). "Nationally, community colleges serve the majority of minority students, and this historic agreement with HBCUs will safeguard increased access toward the completion of a bachelor's degree."

Jovon Duke, 22, attended El Camino College in Torrance, Calif. and transferred to Fisk University in 2013 because of its small class sizes and friendly, supportive atmosphere. "Fisk is such a tight-knitted community and Nashville is great. I've had a lot of opportunities to take on leadership positions and have made many friends and close relationships with my professors. I love it here," said Duke. He plans on earning a bachelor's degree in psychology and sociology and moving on to either Middle Tennessee State University or Case Western Reserve University to get a master's degree in social work.

There are 105 HBCUs in the country, with most located in the South and East Coast.

Many HBCUs were founded following the Civil War, after the Morrill Act permitting the development of land grant colleges was signed by President Abraham Lincoln.

For more information on today's agreement and the participating colleges and universities, please visit [www.cccco.edu/HBCUTransfer](http://www.cccco.edu/HBCUTransfer).

*The California Community Colleges is the largest system of higher education in the nation composed of 72 districts and 112 colleges serving 2.1 million students per year. Community colleges supply workforce training, basic skills education and prepare students for transfer to four-year institutions. The Chancellor's Office provides leadership, advocacy and support under the direction of the Board of Governors of the California Community Colleges. For more information about the community colleges, please visit <http://californiacommunitycolleges.cccco.edu/>, <https://www.facebook.com/CACommColleges>, or <https://twitter.com/CalCommColleges>.*

# ADDITIONS AND CHANGES TO COURSES

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## Administration of Justice (AJ)

### **AJ 55 INTRODUCTION TO CORRECTIONAL SCIENCE 3 UNITS**

Aspects of modern correctional process as utilized in rehabilitation of adult and juvenile offenders. Emphasis on custody, rehabilitation, and treatment programs as recognized by modern penology. Exploration of career opportunities. 3 hours lecture. Transfer: CSU. C-ID# AJ 200.

Degree Applicable, Credit Grading Option: OP

### **AJ 61 EVIDENCE 3 UNITS**

C-ID# AJ 124.

### **AJ 70 COMMUNITY RELATIONS 3 UNITS**

This course examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics may include the consensus and conflicting values in Culture, Religion, and Law. 3 hours lecture. Transfer: CSU,UC. C-ID# AJ 160.

Degree Applicable, Credit Grading Option: GR

## Anatomy (ANAT)

### **ANAT 1 SEE BIO 7A**

## Anthropology (ANTR)

### **ANTR 1 BIOLOGICAL/PHYSICAL ANTHROPOLOGY 3 UNITS**

C-ID# ANTH 110.

### **ANTR 2 INTRODUCTION TO ARCHAEOLOGY: PREHISTORY AND CULTURE GROWTH 3 UNITS**

C-ID# ANTH 150

### **ANTR 3 SOCIAL/CULTURAL ANTHROPOLOGY 3 UNITS**

This course explores how anthropologists study and compare human culture. Cultural anthropologists seek to understand the broad arc of human experience focusing on a set of central issues: how people around the world make their living (subsistence patterns); how they organize themselves socially, politically and economically; how they communicate; how they relate to each other through family and kinship ties; what they believe about the world (belief systems); how they express themselves creatively (expressive culture); how they make distinctions among themselves such as through applying gender, racial and ethnic identity labels; how they have shaped and been shaped by social inequalities such as colonialism; and how they navigate culture change and processes of globalization that affect us all. Ethnographic case studies highlight these

similarities and differences, and introduce students to how anthropologists do their work, employ professional anthropological research ethics and apply their perspectives and skills to understand humans around the globe. Strongly recommended: Eligibility for ENG 1A. 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: D1, D7; IGETC: 4A, 4G. C-ID# ANTH 120.

Degree Applicable, Credit

Grading Option: OP

### **ANTR 12 MAGIC/RELIGION/WITCHCRAFT/HEALING 3 UNITS**

Cross-cultural perspectives on spirituality, religious practice, myth, ancestor beliefs, witchcraft and the variety of religious rituals and practitioners found in the cultures of the world.

Examination of the cosmologies of different cultures through the anthropological perspective. Emphasis is placed on how knowledge of the religious practices and beliefs of others can help us to understand the multicultural world in which we live.

Comparison of the ways in which diverse cultures confront the large and fundamental questions of existence: those dealing with the meaning life, birth and death, and with the relationship of humans to each other and to their universe. Strongly recommended: Eligibility for ENG 1A. 3 hours lecture. AA/AS GE. Transfer: CSU; CSU GE: D1; IGETC: 4A.

Degree Applicable, Credit

Grading Option: GR

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## Art Courses (ARTS)

### **ARTS 2A INTRODUCTION TO DRAWING 3 UNITS**

C-ID# ARTS 110

### **ARTS 2B DRAWING AND COMPOSITION 3 UNITS**

C-ID# ARTS 205

### **ARTS 3A FIGURE AND COMPOSITION I 3 UNITS**

C-ID# ARTS 200

### **ARTS 23 2D DESIGN 3 UNITS**

C-ID# ARTS 100

### **ARTS 24 3D DESIGN 3 UNITS**

C-ID# ARTS 101

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## Art History Courses (ARHS)

### **ARHS 4 ART HISTORY: ANCIENT 3 UNITS**

C-ID# ARTH 110

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## Biology (BIOL)--See Biology (BIO)

**BIOL 1 SEE BIO 1C**

**BIOL 5 SEE BIO 60**

**BIOL 10 SEE BIO 10**

**BIOL 20 SEE BIO 20**

**BIOL 31 SEE BIO 30**

**BIOL 40 SEE BIO 70**

**BIOL: 50 SEE BIO 50**

# BIOLOGY DEPARTMENT

## New Course Numbering System (Effective Fall 2015)

LPC Course Name	New Course Number	Previous Course Number
General Botany	BIO 1A	BOTN 1
General Zoology	BIO 1B	ZOOL 1
Cell and Molecular Biology	BIO 1C	BIOL 1
General Human Anatomy	BIO 7A	ANAT 1
Human Physiology	BIO 7B	PHSI 1
Microbiology	BIO 7C	MICR 1
Intro to Science of Biology	BIO 10	BIOL 10
Contemporary Human Biology	BIO 20	BIOL 20
Intro to College Biology	BIO 30	BIOL 31
Humans and the Environment	BIO 40	ECOL 10
Anatomy & Physiology	BIO 50	BIOL 50
Marine Biology	BIO 60	BIOL 5
Field Biology*	BIO 70	BIOL 40
Independent Study	BIO 29B	BIOL 29

\*not currently offered

## Biology (BIO)

### **BIO 1A GENERAL BOTANY 5 UNITS**

Formerly BOTN 1. Plant structure and function, with emphasis on anatomy, morphology, and physiology of higher (flowering) plants. Includes evolutionary sequence of plant forms and basic principles of ecology. Prerequisite: MATH 55 or MATH 55B or an appropriate skill level demonstrated through the mathematics assessment process. Strongly recommended: BIO 30. 3 hours lecture, 6 hours laboratory for 2 laboratory units. AA/AS GE. Transfer: CSU, UC; CSU GE: B2, B3; IGETC: 5B, 5C. Degree Applicable, Credit Grading Option: GR

### **BIO 1B GENERAL ZOOLOGY 5 UNITS**

Formerly ZOOL 1. Major groups of animal phyla and heterotrophic unicellular eukaryotes. Topics include comparative structure and function, development, ecology, taxonomy, phylogeny, evolution, and behavior. Designed for majors in biological sciences and related fields. Prerequisite: MATH 55 or MATH 55B or an appropriate skill level demonstrated through the mathematics assessment process. Strongly recommended: BIO 30. 3 hours lecture, 6 hours laboratory for 2 laboratory units. AA/AS GE. Transfer: CSU, USC; CSU GE: B2, B3; IGETC: 5B, 5C. Degree Applicable, Credit Grading Option: GR

### **BIO 1C CELL AND MOLECULAR BIOLOGY 5 UNITS**

Formerly BIOL 1. Principles of cell and molecular biology. Includes biochemistry, cell structure and function, cell homeostasis, cell metabolism, cell reproduction, cell communication, genetics, molecular biology, biotechnology, and evolution. Emphasis on scientific inquiry and experimental

design. Prerequisite: BIO 1A or BIO 1B (completed with a grade of "C" or higher), MATH 55 or MATH 55B, and CHEM 1A, which may be taken concurrently with BIO 1C. Students must also be eligible for ENG 1A. 3 hours lecture, 6 hours laboratory for 2 laboratory units. AA/AS GE. Transfer: CSU, UC; CSU GE: B2, B3; IGETC: 5B, 5C. C-ID# BIOL 190.

Degree Applicable, Credit

Grading Option: GR

### **BIO 7A HUMAN ANATOMY 5 UNITS**

Formerly ANAT 1. Structure and function of the human body with emphasis on microscopic, gross, and developmental anatomy. Microscopic examination of normal and pathological tissues, and dissection, supplemented by use of charts, models, and computer assisted instruction. Prerequisite: BIO 30 (completed with a grade of "C" or higher). Strongly recommended: Eligibility for ENG 1A. 3 hours lecture, 6 hours laboratory for 2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE: B2, B3; IGETC: 5B, 5C. \*Combined BIO 7A, BIO 7B and BIO 50, max credit 2 courses. C-ID# BIOL 110B.

Degree Applicable, Credit

Grading Option: GR

### **BIO 7B HUMAN PHYSIOLOGY 5 UNITS**

Formerly PHSI 1. Function and regulation of the human body. This course examines general, cellular, and molecular interactions that integrate the organ systems to maintain homeostasis. Human responses and computer simulations are used to collect and analyze data. Designed for nursing, physical and occupational therapy, and other health sciences majors. Prerequisite: CHEM 30A, or CHEM 31, or CHEM 1A and BIO 7A (completed with a grade of "C" or higher). Strongly recommended: CHEM 30B and English 1A. 3 hours lecture, 6 hours laboratory for 2 laboratory units. AA/AS GE. Transfer: CSU,

UC\*; CSU GE: B2, B3; IGETC: 5B, 5C. \*BIO 7A, BIO 7B, and BIO 50 combined, max UC credit, 2 courses. C-ID# BIOL 120B  
Degree Applicable, Credit Grading Option: GR

**BIO 7C MICROBIOLOGY 5 UNITS**

Formerly MICR 1. Bacteria, fungi, protozoans, parasites, and viruses with an emphasis on their relationship to humans. Cultivation, control, metabolism, body's defense against disease, microbial genetics, laboratory tests, and contemporary diseases are discussed. Methods used in the laboratory include staining, investigation, cultivation, identification of unknowns, and sensitivity testing. Prerequisites: BIO 30, CHEM 30A or CHEM 1A, and ENG 1A (completed with a minimum grade of "C" or higher). Strongly recommended: BIO 7A. 3 hours lecture, 6 hours laboratory for 2 laboratory units. AA/AS GE. Transfer: CSU, UCCSU GE: B2, B3; IGETC: 5B, 5C.  
Degree Applicable, Credit Grading Option: GR

**BIO 10 INTRODUCTION TO THE SCIENCE OF BIOLOGY 4 UNITS**

Formerly BIOL 10. No changes other than the rubric.

**BIO 20 CONTEMPORARY HUMAN BIOLOGY 3 UNITS**

Formerly BIOL 20. No changes other than the rubric.

**BIO 30 INTRODUCTION TO COLLEGE BIOLOGY 4 UNITS**

Formerly BIOL 31. Basic principles of biology. Cell structure and function, cell division, cell metabolism, reproduction, genetics, taxonomy, origin of life, and evolution. Laboratory emphasis on developing various laboratory skills, using the metric system, collecting data, graphing, interpreting data, and preparing for and taking laboratory exams. Designed to prepare the necessary concepts and laboratory skills and experience that are needed to succeed in more advanced courses in biology. Strongly recommended: MATH 65 or MATH 65B and eligibility for ENG 1A. 3 hours lecture, 3 hours laboratory for 1 laboratory unit. AA/AS GE. Transfer: CSU, \*UC: CSU GE: B2, B3; IGETC, 5B, 5C. \*BIO 10 and BIO 30 combined, max UC credit, one course.  
Degree Applicable, Credit Grading Option: GR

**BIO 40 HUMANS AND THE ENVIRONMENT 3 UNITS**

Formerly ECOL 10. Identification of problems created by humans' modification of their environment by focusing on ecological interactions involving the human species; investigating the life processes of organisms as they relate to specific environments. 3 hours lecture. AA/AS GE: Transfer: CSU, UC; CSU GE: B2; IGETC: 5B.  
Degree Applicable, Credit Grading Option: OP

**BIO 50 ANATOMY AND PHYSIOLOGY 4 UNITS**

Formerly BIOL 50. Transfer: CSU, UC\*; CSU GE: B2, B3; IGETC: 5B, 5C. \*BIO 7A, BIO 7B, and BIO 50 combined, max UC credit, 2 courses. No changes other than the rubrics.

**BIO 60 MARINE BIOLOGY 4 UNITS**

Formerly BIOL 5. Ocean as a habitat, the organisms that inhabit marine waters, their ecology, adaptations and evolution, and the role of the ocean in the ecology of the biosphere. 3 hours lecture, 3 hours laboratory for 1 laboratory unit. AA/AE GE. Transfer: CSU, UC: CSR GE: B2, B3; IGETC: 5B, 5C.  
Degree Applicable, Credit Grading Option: OP

**BIO 70 FIELD BIOLOGY 3 UNITS**

Formerly BIOL 40. No changes other than the rubric.

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## Botany (BOTN)

**BOTN 1 SEE BIO 1A**

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## Business (BUSN)

**BUSN 1A FINANCIAL ACCOUNTING 4 UNITS**

A study of accounting as an information system; examining why it's important, and how it's used by investors and creditors to make decisions. Includes the recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the classified financial statements for merchandising and service companies, and statement analysis. Also includes issues related to asset, liability and equity valuation; revenue and expense recognition, cash flow, internal controls and ethics. (Formerly known as Principles of Accounting I.) 4 hours lecture, 1 hour laboratory. Transfer: CSU, UC. C-ID# ACCT 110.  
Degree Applicable, Credit Grading Option: GR

**BUSN 1B MANAGERIAL ACCOUNTING 4 UNITS**

A study of the use and reporting of accounting data for managerial planning, cost control, and decision making purposes. Includes broad coverage of concepts, structures, classifications, and behaviors of costs. Topics include; cost systems, job costing, process costing, activity based costing, relationship between cost, volume and profitability, relevant range, standard costing, profit planning and budgeting, static and flexible budgeting, responsibility accounting and segment reporting, absorption and variable costing and capital expenditure decisions. (Formerly known as Principles of Accounting II.) 4 hours lecture, 1 hour laboratory. Prerequisite: BUSN 1A completed with a grade of "C" or higher. Transfer: CSU, UC. C-ID# ACCT 120  
Degree Applicable, Credit Grading Option: GR

**BUSN 18 BUSINESS LAW 4 UNITS**

C-ID# BUS 125

**BUSN 40 INTRODUCTION TO BUSINESS 3 UNITS**

C-ID# BUS 110



## Computer Information Systems (CIS)

### CIS 50 INTRODUCTION TO COMPUTING AND INFORMATION TECHNOLOGY 3 UNITS

A comprehensive introductory overview of computers and information technology. Topics include: basic computer concepts and terminology, hardware, software, data and procedures, data communications, Internet, computer programming concepts, the system development process and new emerging technologies. Students will interactively solve applied problems utilizing software productivity tools such as: word processors, spreadsheets, databases, Email, WWW, and programming languages such as Visual Basic or HTML. Introduce the analytical, written and oral communication skills necessary to communicate effectively in a business computing environment. 3 hours lecture, 1 hour laboratory. AA/AS GE. Transfer CSU, UC. C-ID# BUS 140  
Degree Applicable, Credit Grading Option: OP

### CIS 65 INTRODUCTION TO DESKTOP OPERATING SYSTEMS 2 UNITS

By performing numerous hands-on labs, students in this class will gain an understanding of operating systems using command line and GUI interfaces. Students will use virtualization software to install and configure operating systems and user applications on a class room computer. Students will also experiment with remote computing and storage. Current operating systems for portable devices will be demonstrated. The role of hardware, application software and the operating system and how they interact with each other will be explored. Strongly recommended: CIS 50. 1 hour lecture, 3 hours laboratory for 1 laboratory unit. Students who have completed or are enrolled in Computer Networking Technology 50 may not receive credit. Transfer: CSU  
Degree Applicable, Credit Grading Option: OP

## Computer Networking Technology (CNT)

### CNT 50 INTRODUCTION TO DESKTOP OPERATING SYSTEMS 2 UNITS

By performing numerous hands-on labs, students in this class will gain an understanding of operating systems using command line and GUI interfaces. Students will use virtualization software to install and configure operating systems and user applications on a class room computer. Students will also experiment with remote computing and storage. Current operating systems for portable devices will be demonstrated. The role of hardware, application software and the operating system and how they interact with each other will be explored. Strongly recommended: CIS 50. Students who have completed or are enrolled in Computer Information Systems 65 may not receive credit. 1 hour lecture, 3 hours laboratory for 1 laboratory unit. Transfer: CSU  
Degree Applicable, Credit Grading Option: OP

### CNT 62A CISCO NETWORKING ACADEMY CCNA I 4 UNITS

This course covers the first half of the CCNA Cisco Certified Network Associate Certification curriculum, and the objectives of the Cisco CCENT certification exam. CNT62B covers the second half. CNT62A will cover the fundamentals of networking, including the OSI model and industry standards, concepts, network topologies, cabling, network hardware, basic network design, LANs, and network configuration and troubleshooting. It includes router and routing concepts and terminology including OSPF, RIP, EIGRP routing protocols, distance vector and link state routing, routing loop issues, routing theory, TCP/IP basics, IP v4 and v6 addressing, VLSM, CIDR, subnetting, router IOS and configuration, switching concepts, CDP and CSMA-CD. 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. 3 hours lecture, 3 hours laboratory for 1 laboratory unit. Transfer: CSU  
Degree Applicable, Credit Grading Option: OP

### CNT 62B CISCO NETWORKING ACADEMY CCNA II 4 UNITS

This course covers the second half of the Cisco Certified Network Associate (CCNA) curriculum, and the objectives of the CCNA and ICND exams. It covers internetwork topology and design, configuring LAN switches, STP, VLANs and trunking, TCP/IP suite, VLSM / CIDR, IPv4 and IPv6 addressing and subnetting, advanced routing concepts and configuration for RIP, IRPng, OSPF EIGRP, HSRP, and static routes. Also includes WANs using Frame Relay, PPP, PAP/CHAP authentication, and network address translation. Network security, best practices, router/switch security, passwords. Prerequisite: CNT 62A (with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory for 1 laboratory unit. Transfer: CSU  
Degree Applicable, Credit Grading Option: OP

### CNT 67 WIFI CISCO & CWNA 3 UNITS

Subjects covered include: wireless networks, access, modems, routers, firewalls, war-driving, security, compatibility, site survey and network planning, basic network administration, basic network troubleshooting, and objectives for the Cisco and CWNA wireless certifications. This course will prepare students to plan, purchase, and install a small to medium-sized wireless or WIFI and secure it, and meets the needs of small businesses, SOHO (Small Office, Home Office) workers, telecommuters, and home wireless networks. Strongly recommended: CIS 50 or CNT 55. 2.5 hours lecture, 1.5 hours laboratory for 0.5 laboratory units. Transfer: CSU  
Degree Applicable, Credit Grading Option: OP

**CNT 68 COMPUTER FORENSICS I 3 UNITS**

A survey course in the detection, prevention and investigation of incidents involving computers and digital information, including cyber attacks and the use of computers to investigate crimes. The program will include introduction to computer forensics, incident response, methods of investigation, tracking persons and data, the secure analysis of hard drives and storage mediums, and IT security utilizing court-approved forensic software and tools. Strongly recommended: CIS 50 (completed with a grade of "C" or higher). 3 hours lecture. Transfer: CSU Degree Applicable, Credit Grading Option: OP

**CNT 69 NETWORK SECURITY SEC+ 3 UNITS**

This course follows the CompTIA Security+ certification objectives, and provides an introduction to the concepts and practices of secure network design and management using desktop and network operating systems, router and switch operating systems, hardware and software Firewall and VPN technology for wired and wireless systems. The program will include authentication methods and devices, protocol analysis and IP network troubleshooting, strategies for identifying and countering vulnerabilities, network medias and topologies in a secure network, intrusion detection and forensic incident response. Strongly recommended: CNT 51B or CIS 50 and CNT 51A (completed with a grade of "C" or higher). 2.5 hours lecture, 1.5 hours laboratory for 0.5 laboratory units. Transfer: CSU Degree Applicable, Credit Grading Option: OP

**CNT 70 COMPUTER FORENSICS II 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, the class includes understanding and practice in basic computer forensics, methods of investigation, analysis of hard drives, storage mediums, network logs, and investigation reporting utilizing court-approved forensic software and tools. Strongly recommended: CIS 50 or CNT 68 (completed with a grade of "C" or higher). 2.5 hours lecture, 1.5 hours laboratory for 0.5 laboratory units. Transfer: CSU Degree Applicable, Credit Grading Option: OP

**CNT 7284 INFORMATION STORAGE AND MANAGEMENT 4 UNITS**

Comprehensive study of storage technology in complex IT environments, with emphasis on the exam topics for the EMC Information Storage Associate Certification (EMCISA). Theory and hands-on activities of storage systems, storage networking technologies, archives, cloud computing, storage security, and managing storage infrastructure. Strongly recommended: CNT 62A (with a grade of "C" or higher). 1 hour lecture, 9 hours laboratory for 3 laboratory units. Transfer: CSU Degree Applicable, Credit Grading Option: OP

**CNT 7285 CLOUD INFRASTRUCTURE AND SERVICES 3 UNITS**

This course covers the objectives of the CompTIA Cloud+ and EMC E20-002 Cloud Infrastructure and Services certification exams. Topic included are cloud deployment and service models, cloud infrastructure, and the key considerations in migrating to

cloud computing, including compute, storage, networking, desktop and application virtualization. Additional areas of focus are backup/recovery, business continuity, security, and management. Strongly recommended: CNT 62A (with a grade of "C" or higher). 1 hour lecture, 6 hours laboratory for 2 laboratory units. Transfer: CSU Degree Applicable, Credit Grading Option: OP

**CNT 7301 VOIP: CISCO & ASTERISK IP PHONES 4 UNITS**

VoIP (Voice over Internet Protocol) offers a cost-effective alternative to plain old telephone service. This class covers VoIP planning and configuration basics and objectives for the Cisco and Asterisk certification tests. Extensive use is made of open source VoIP systems as a mechanism for practice implementation of VoIP in a network environment. This class is for all business, SOHO and computer users interested in using this technology, and will serve as a practical hands-on guide to the purchase and setup of hardware and software for Internet phones and the broadband Internet services required to support them, as well as covering objectives for certification exams. Strongly recommended: CIS 50. 3 hours lecture, 3 hours laboratory for 1 laboratory unit. Transfer: CSU Degree Applicable, Credit Grading Option: OP

**CNT 7401 INTRO TO LINUX/UNIX, LINUX+ 4 UNITS**

This course provides hands-on training covering basic installation, management, configuration, security, documentation and hardware topics for the Linux/UNIX operating system on workstations in a LAN environment. The objectives for basic technician certifications such as LPI, RHCT, CompTIA Linux+ are covered. Topics include desktop security objectives and major types of security vulnerabilities, physical security, file protection, basic system and network configuration, account security, logging, backups, Linux/UNIX desktop security features and useful utilities, detecting and preventing DOS attacks, hacking, authentication and data recovery. Strongly recommended: CIS 50. 3 hours lecture, 3 hours laboratory for 1 laboratory unit. Transfer: CSU Degree Applicable, Credit Grading Option: OP

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## Computer Science (CS)

**CS 1 COMPUTING FUNDAMENTALS I 4 UNITS**

Introduction to programming and problem-solving using C++. Problem solving techniques and algorithms; program design, development, style, testing and debugging. C++ syntax covered includes: variables; data types; operators and expressions; control structures; library and user-defined functions; basic input/output; arrays; user-defined data structures. Strongly recommended: MATH 107. 3 hours lecture, 3 hours laboratory for 1 laboratory unit. AA/AS GE. Transfer: CSU, UC. C-ID# COMP 122. Degree Applicable, Credit Grading Option: OP

**CS 7 INTRODUCTION TO COMPUTER PROGRAMMING CONCEPTS 3 UNITS**

An introductory course in computer programming concepts and fundamental coding skills using object-oriented languages like Python. Material includes problem-solving techniques, design of

algorithms, and common programming constructs such as variables, expression, input/output, decision-making, loops, and arrays. 2.5 hours lecture, 1.5 hours laboratory for 0.5 laboratory units. Transfer: USC, UC. C-ID# COMP 112.

Degree Applicable, Credit Grading Option: OP

**CS 31 JAVA PROGRAMMING 4 UNITS**

Applications programming in Java for students already familiar with the concepts of programming. Topics will include in Applets, GUI programming, and design using Swing, presenting data files over the web, elementary data structures (queues, linked list, stacks) and vectors, searching (linear, binary), sorting algorithms, Database programming using JDBC (Java Data Base Connectivity), Remote Method Invocation (RMI), and Java Beans. The student will also be exposed to and experience developing Java applications and applets in the Linux/Unix environment(s). Strongly recommended: CS 1 and CS 7 (with a grade of "C" or higher). 3 hours lecture, 3 hours laboratory for 1 laboratory unit. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

**Early Childhood Development Courses (ECD)**

**CORRECTION TO AA – EARLY CHILDHOOD DEVELOPMENT**

The ECD 79 course was accidentally omitted from the AA degree information in the 2014-2016 Catalog. This is the correct information:

**AA – Early Childhood Development**

**FRESHMAN YEAR**

ECD 50 (Early Childhood Principles and Practices).....	3
ECD 56 (Child Growth and Development) .....	3
ECD 62 (Child, Family and Community) .....	3
ECD 63 (Early Childhood Curriculum) .....	4
General Education Courses	

**SOPHOMORE YEAR**

ECD 54 (Child Health, Safety, and Nutrition .....	3
ECD 60 (Introduction to the Young Child with Exceptional Needs).....	3
ECD 69 (Child Study: Observation and Assessment).....	3
ECD 79 (Teaching in a Diverse Society).....	3
ECD 90 (Practicum—Supervised Experience) .....	4
ECD 95** (Work Experience).....	1
ECD 96** (Work Experience Seminar).....	1
Electives	
General Education Courses	
Total Units .....	60

**ELECTIVES**

ECD 15 (Abnormal Child Psychology)
ECD 52 (Childhood and Adolescence)
ECD 61 (Literature for the Young Child)
ECD 64 (Play: Materials and Environments)
ECD 65 (Administration I: Programs in Early Childhood Education)
ECD 67 (Infant and Toddler Development and Caregiving)
ECD 68 (Administration II: Personnel & Leadership in Early Childhood

ECD 78 (Language Development)
ECD 80 (Advanced Topics in Childhood Development)
ECD 83 (Adult Mentoring and Supervision)

An additional course was shown for the Certificate of Achievement Basic Teacher in the 2014-2016 Catalog. This is the correct information.

**Certificate of Achievement Basic Teacher**

ECD 50 (Early Childhood Principles and Practices).....	3
ECD 56 (Child Growth and Development).....	3
ECD 62 (Child, Family and Community) .....	3
ECD 60 (Intro to the Young Child with Exceptional Needs).....	3
<i>Select one of the following for 3 units:</i>	
ECD 40 (Social and Emotional Foundations for Early Learning) or ECD 54 (Child Health, Safety, and Nutrition) or ECD 79 (Teaching in a Diverse Society).....	3
ECD 95** (Work Experience) .....	1
ECD 96** (Work Experience Seminar) .....	1
ECD 90 (Practicum—Supervised Experience).....	4
Total units required .....	25

\*\* See the Work Experience section in the 2014-2016 Catalog for details on Work Experience enrollment requirements.

<b>ECD 62 CHILD, FAMILY, AND COMMUNITY 3 UNITS</b>
C-ID# CDEV 110

<b>ECD 90 PRACTICUM: SUPERVISED EXPERIENCE 4 UNITS</b>
C-ID# ECE 210

**Ecology (ECOL)**

<b>ECOL 10 SEE BIO 40</b>
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**Economics Courses (ECON)**

<b>ECON 1 PRINCIPLES OF MICROECONOMICS 3 UNITS</b>
C-ID# ECON 201

<b>ECON 2 PRINCIPLES OF MACROECONOMICS 3 UNITS</b>
C-ID# ECON 202

**English (ENG)**

<b>ENG 1A CRITICAL READING AND COMP 3 UNITS</b>
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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 or ENG 105 with a “Pass” or ESL 25 (completed with a grade of “C” or higher) or equivalent course or appropriate skill level demonstrated through the English assessment process. 3 hours lecture, AA/AS GE. Transfer: CSU, UC; CSU GE: A2; IGETC: 1A. C-ID# ENGL 100

Degree Applicable, Credit Grading Option: GR

**ENG 4 CRITICAL THINKING AND WRITING ABOUT LITERATURE 3 UNITS**

Develops critical thinking, reading, and writing skills as they apply to the analysis of fiction, poetry and drama; literary criticism; and related non-fiction from diverse cultural sources and perspectives. Emphasis on the techniques and principles of effective written argument as they apply to literature. Some research required. Prerequisite: ENG 1A (with a grade of "C" or higher). 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: A3; IGETC: 1B. C-ID# ENGL 120.

Degree Applicable, Credit Grading Option: GR

**ENG 19A LAS POSITAS LITERARY ANTHOLOGY A 3 UNITS**

Creation of a literary-style student magazine. Practical training in the managing, editing, formatting, and printing of a literary supplement and/or magazine. Enrollment constitutes the staff of the magazine. The number of laboratory units will be agreed upon and scheduled by instructor and student based on the student's job description and availability to participate. 2 hours lecture, 3 hours laboratory for 1 laboratory unit. (Cross List with MSCM 19A; A student who has completed MSCM 19A cannot enroll in ENG 19A.) Transfer: CSU

Degree Applicable, Credit Grading Option: OP

**ENG 20 STUDIES IN SHAKESPEARE 3 UNITS**

Readings of the sonnets and representative comedies, histories, tragedies, and romances of William Shakespeare, with attention to the early, middle and late phases of his art and to the Age of Elizabeth. Prerequisite: English 1A (completed with a grade of "C" or higher). 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B.

Degree Applicable, Credit Grading Option: GR

**ENG 32 U.S. WOMEN'S LITERATURE 3 UNITS**

Chronicles the expression of U.S. women authors through readings in a variety of genres such as fiction, poetry, drama, and the essay. Study of the works of at least three of the following groups: African Americans, Asian Americans, European Americans, Hispanic Americans, and Native Americans, with a particular focus on the 20th century. Prerequisite: ENG 1A (completed with a grade of "C" or higher). 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B.

Degree Applicable, Credit Grading Option: GR

**ENG 35 U.S. WOMEN'S LITERATURE 3 UNITS**

C-ID# ENGL 135

**ENG 41 WORLD LITERATURE: 17<sup>TH</sup> CENTURY TO THE PRESENT 3 UNITS**

C-ID# ENGL 145

**ENG 44 LITERATURE OF THE AMERICAN WEST 3 UNITS**

Critical analysis of the cultural and historical experiences of diverse people of the American West as expressed in their literatures, including the novel, short story, poetry, autobiography, memoirs, as-told-to-narratives, and secondary works. Exploration of interrelationships among peoples and

cultures of the West, considering place and community, gender, and ethnicity as given voice in literature. Study of the works of at least three of the following groups: African Americans, Asian Americans, European Americans, Hispanic Americans, Native Americans. Emphasis upon techniques of critical review of and response to literary works, including gaining understanding of one's identity as a Westerner and an American. Prerequisite: ENG 1A (completed with a grade of "C" or higher). 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B. Degree Applicable, Credit Grading Option: GR

**ENG 45 STUDIES IN FICTION 3 UNITS**

Form, development, and cultural insights of the novel and short story; exploration of particular themes or periods as reflected in works of fiction. Prerequisite: ENG 1A (completed with a grade of "C" or higher). 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: C2; IGETC: 3B.

Degree Applicable, Credit Grading Option: GR

**ENG 104W INTEGRATED READING AND WRITING II WORKSHOP 0.75 UNITS**

This course provides 0.75 additional LAB hours of instruction to support students who have not placed into 104/105 but hope to accelerate through the sequence of basic skills English courses. Instructors will work intensively with a group of ten students to support their development in critical thinking, reading, writing, and research. Co-requisite: ENG 104. This 0.75 unit lab can only be taken concurrently with an ENG 104 course.

Nondegree Applicable, Credit Grading Option: P/NP

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## Engineering (ENGR)

**ENGR 36 APPLIED STATICS AND MATERIALS 3 UNITS**

Applied statics, mechanics of materials, and materials science. Topics include stress, strain, types of forces, moments, moment of inertia, friction, truss structures, centers of gravity, modulus of elasticity, fasteners, chemistry and atomic structure, crystalline structures, phase diagrams. This course is designed for Engineering Technology majors; it is not intended for students pursuing the Engineering Requirements (Transfer Preparation) path. Prerequisite: MATH 38 (completed with a grade of "C" or higher). 2 hours lecture, 3 hours laboratory for 1 laboratory unit. Transfer: CSU

Degree Applicable, Credit Grading Option: OP

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## Geography Courses (GEOG)

**GEOG 1 INTRODUCTION TO PHYSICAL GEOGRAPHY 3 UNITS**  
C-ID# GEOG 110

**GEOG 1L INTRODUCTION TO PHYSICAL GEOGRAPHY LABORATORY 1 UNIT**

C-ID# GEOG 111

**GEOG 2 CULTURAL GEOGRAPHY 3 UNITS**

C-ID# GEOG 120



**GEOG 5 WORLD REGIONAL GEOGRAPHY** 3 UNITS  
C-ID# GEOG 125

**GEOG 12 GEOGRAPHY OF CALIFORNIA** 3 UNITS  
C-ID# GEOG 140

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## Geology Courses (GEOL)

**GEOL 3 HISTORICAL GEOLOGY** 3 UNITS  
C-ID# GEOL 110

**GEOL 3L HISTORICAL GEOLOGY LABORATORY** 1 UNIT  
C-ID# GEOL 110L

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## Health (HLTH)

**HLTH 1 INTRODUCTION TO HEALTH** 3 UNITS  
Physiological, psychological, and social perspectives of health. Emphasis on knowledge, attitudes, and behaviors that will contribute to a healthy individual. 3 hours lecture. AA GE. Transfer: CSU, \*UC; CSU GE: Area E. \*HLTH 1 and HLTH 3 combined, max UC credit, one course.  
Degree Applicable, Credit Grading Option: OP

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## History Courses (HIST)

**HIST 1 WESTERN CIVILIZATION TO 1600** 3 UNITS  
C-ID# HIST 170

**HIST 2 WESTERN CIVILIZATION SINCE 1600** 3 UNITS  
C-ID# HIST 180

**HIST 7 US HISTORY THROUGH RECONSTRUCTION** 3 UNITS  
C-ID# HIST 130

**HIST 8 US HISTORY POST-RECONSTRUCTION** 3 UNITS  
C-ID# HIST 140

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## Horticulture (HORT)

**HORT 50 INTRODUCTION TO HORTICULTURE** 3 UNITS  
Botanical nomenclature, anatomy and physiology, plant growth, and development are presented. Various micro-climates, landscape planning and development, media, fertilizer, and watering methods are discussed. Design and development of a home landscape plan is included. Current research of plant propagation, plant disorders and pest management will be explored. (8 hours of lab to be scheduled on Saturdays which may include one or more field trips.) 2.5 hours lecture, 1.5 hours laboratory for 0.5 laboratory units. Transfer: CSU.  
Degree Applicable, Credit Grading Option: OP

**HORT 51 FALL PLANT MATERIAL IDENTIFICATION** 3 UNITS  
Identification of landscape and garden plants will be categorized. Growth habit, climatic adaptation, ornamental value, maintenance and care of trees, shrubs, vines will be studied, with the focus on deciduous trees and fall flowering

plants. (8 hours of lab to be scheduled on Saturdays which may include one or more field trips.) 2.5 hours lecture, 1.5 hours laboratory for 0.5 laboratory units. Transfer: CSU  
Degree Applicable, Credit Grading Option: OP

**HORT 52 SPRING PLANT MATERIAL ID** 3 UNITS

Identification of landscape and garden plants will be categorized. Growth habit, climatic adaptation, ornamental value, maintenance and care of trees, shrubs, vines will be studied, with the focus on evergreen and spring flowering plants. (8 hours of lab to be scheduled on Saturdays, which may include one or more field trips.) 2.5 hours lecture, 1.5 hours laboratory for 0.5 laboratory units. Transfer: CSU  
Degree Applicable, Credit Grading Option: OP

**HORT 53 INTEGRATED PEST MANAGEMENT** 3 UNITS

Concepts of plant pathology, entomology, and weed science are studied in order to identify symptoms, diagnose problems, and determine methods of controlling plant diseases, insects, and weed pests. Methods and techniques of integrated pest management, chemical and non-chemical control related to garden, landscape, and other horticulture crops and plants are studied. Disease and pest control materials are assessed with emphasis on safe handling and application, and environmental protection. Focus is on preparation for State Qualified Applicators. 2.5 hours lecture, 1.5 hours laboratory for 0.5 laboratory units. Transfer: CSU  
Degree Applicable, Credit Grading Option: OP

**HORT 56 ARBORICULTURE/URBAN FORESTRY** 3 UNITS

Care, maintenance, planting, and pruning of trees, shrubs, and vines are discussed. Specific pruning techniques for ornamental trees, fruit trees, shrubs, roses, and other woody plants are demonstrated. Principles of urban forestry, tree preservation, health, growth characteristics, plant selection, planting, irrigation, fertilization, and damage repair are studied. (8 hours of lab to be scheduled on Saturdays, which may include one or more field trips.) 2.5 hours lecture, 1.5 hours laboratory for 0.5 laboratory units. Transfer: CSU  
Degree Applicable, Credit Grading Option: OP

**HORT 57 LANDSCAPE AND TURFGRASS MGMT** 2 UNITS

Principles and practices of landscape and turfgrass management as practiced by horticultural professionals, landscape contractors, and grounds keepers will be covered, including preparation, installation, maintenance, renovation, irrigation, fertilization, pruning, and pest control of landscape developments for residential, commercial, public grounds, golf courses, and gardens. 1.5 hours lecture, 1.5 hours laboratory for 0.5 laboratory units. Transfer: CSU  
Degree Applicable, Credit Grading Option: OP

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## Kinesiology Activity Courses (KIN)

**KIN AFG AEROBIC FITNESS GYM** 1-2 UNITS

The Aerobic Fitness Gym course will present and implement the fundamental principles of Cardio/Aerobic Fitness training. Methods of assessing and monitoring aerobic intensity will be discussed and documented in class. The health and fitness

benefits of cardio/aerobic conditioning will be presented. A variety of aerobic gym equipment will be used to achieve cardiopulmonary fitness and healthy body composition. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN AIE ADAPTED INDIVIDUALIZED EXERCISE 1-2 UNITS**

This course is designed to have students with disabilities develop and use individualized exercise programs to meet their particular needs. Exercises will emphasize lifelong health, balance, flexibility, muscular strength and endurance, aerobic conditioning and coordination. Exercise principles and safety will be emphasized. Individual sports, such as bowling, self-defense, and track may be adapted for participation by the students. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE.

Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN AQA AQUA AEROBICS 1-2 UNITS**

Student will participate in a variety of upright exercises in the shallow and deep water of a pool. Water specific movements, which take advantage of the unique characteristics of water, will help students improve cardiorespiratory endurance, muscle endurance/strength, flexibility and body composition, while minimizing impact on the body. Students need not be swimmers to participate in this class; however students must feel comfortable in the water. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN AWT ADAPTED WEIGHT TRAINING 1-2 UNITS**

This adapted kinesiology course is for those individual's with special needs as a result of a disability and/or limitation(s). It provides an opportunity to learn methods to improve muscular strength and endurance in a safe, supervised gym environment. Students will learn sound training principles and their application. A personalized exercise program will be designed to meet the individual needs and goals of each student. Student will be required to provide medical clearance to participate in this course. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN BC1 BOOT CAMP 1 FOR FLEXIBLY & CORE DEVELOPMENT 1-2 UNITS**

Improve flexibility and core development (thus providing stability to our movements) through a variety of drills and military style movements. Functional training delivered in an intense environment. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN BC2 BOOT CAMP FOR AEROBIC CONDITIONING 1-2 UNITS**

Improve aerobic capacity, muscle endurance and cardiorespiratory fitness through a variety of drills and military style movements. Functional training delivered in an intense environment. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN BC3 BOOT CAMP FOR POWER & STRENGTH TRAINING 1-2 UNITS**

Improve muscle strength & power through a variety of drills and military style movements. Functional training delivered in an intense environment. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN BSF 1 BODY SCULPTING FOR FITNESS 1-2 UNITS**

This kinesiology course focuses on the use of Bells and Balls for Core muscular sculpting and conditioning. An introduction to resistance training using dumb bells, barbells, kettle bells, medicine balls, stability balls and step platforms. The health and fitness related benefits will be presented. SMART goal setting, personal program design and compliance will be included in the instruction. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN DBS DANCE AEROBICS/BODY SCULPTING 1-2 UNITS**

A combination of energizing aerobic dance and specific resistance training. Improves cardio-respiratory endurance and tones major muscle groups. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN DRJ 1 DANZAN RYU JUJITSU 1 1-2 UNITS**

An introductory course of the martial art system of Danzan Ryu Jujitsu, a hybrid of Japanese Jujitsu, Judo, and Kenpo, and the Hawaiian art of Lua. Techniques are not strength based and primarily involve the use of joint and nerve manipulation, precision striking, and throwing to subdue an attacker. The course will focus on history, basic movement, beginning level escapes, throws, and strikes, and how to receive techniques safely. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN DV1 SPRINGBOARD DIVING 1-2 UNITS**

This course is designed to give students an introduction into the sport of Springboard Diving. Instruction will include 1 meter and 3 meter springboards, and the 5 types of dives (forward, backward, reverse, inward, twisting). Strongly recommended: KIN SW1 (completed with a grade of "C" or higher). 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer:





fundamental swing skills for the long and short game and appropriate club selection. Beg-Intermediate and Intermediate players can benefit from the basic instruction to improve their skill set through the art of practice on the range. The course will be offered at a local golf range and student will be charged a minimal fee for bucket of balls to be used. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN HHA HIP HOP AEROBICS 1-2 UNITS**

This course is designed to give a vigorous full-body workout with choreographed dance moves to hip hop/club music. Hip hop dance is an alternate form of exercise that helps improve and maintain the shape of one's body, burn calories, and strengthen immune system in a low pressure, safe, and fun environment. Will include low and high impact aerobics. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN ID INTRODUCTION TO DANCE 1-2 UNITS**

Introduction to the distinct movements and techniques characteristic of ballet, modern dance, and jazz dance. The course will focus on the development of coordination, rhythm, strength, flexibility, alignment, and basic dance movement combinations in each of the three dance genres. In addition, knowledge of musculoskeletal alignment, movement safety, and dance appreciation skills will be included. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN JW JOG/WALK 1-2 UNITS**

This kinesiology fitness course focuses on walking or jogging to enhance one's cardiovascular fitness, body composition, and overall general health. This course is ideal for the general population to begin or continue a lifetime of exercise. Walking/Jogging techniques, training intensity assessment, methods for improvement and personal programs will be provided during the course. With consistent practice and implementing sound fitness principles provided by this course, one will benefit from participation. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN LAX1 LACROSSE 1-2 UNITS**

Introduction to the team invasion game of Lacrosse. Fundamental skills of cradling, passing and catching, dealing with ground balls, shooting and dodging are incorporated. Strategies and tactics, for example; zonal defending, exploiting counter-attacking situations, and the settled offense will be integrated. Applied exercise physiology and psychology concepts are explained in context with the activity. 54-108 hours laboratory

for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN PL2 PILATES 2 1-2 UNITS**

This Kinesiology course is continued study of the Pilates Method. The student will learn the principle of neutral spine, how to use Pilates props to provide variation and increased difficulty, and create level 2 exercise routines to enhance overall fitness. The concept of "complete coordination of the body, mind and spirit" will be experienced. Strongly recommended: KIN PL1 (completed with a grade of "C" or higher). 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN PPA1 POWER PLATFORM AEROBICS 1-2 UNITS**

This kinesiology movement course is an intense and dynamic platform (step) workout. It will improve the student's aerobic fitness, muscular strength, muscular endurance and body composition. The student will use platforms at different heights and tempo to increase the intensity of the workout. The proper technique and safety guidelines, aerobic principles, stepping basics and physiological benefits will be presented. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: GR

**KIN SC1 SOCCER OUTDOOR 1-2 UNITS**

Students will practice the skills of kicking, passing, trapping and heading necessary for controlled field soccer play. Students will discuss and employ basic offensive and defensive strategies and tactics; and put into practice the rules governing soccer. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: GR

**KIN SC2 SOCCER OUTDOOR 2 1-2 UNITS**

This course will focus on advanced technical skills such as bending the pass, group attacking principles of when and how to utilize the space between the opponent's defensive line and midfielder line and group defending including zonal defending to create counter-attacking opportunities. Strongly recommended: KIN SC 1. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN SD SALSA DANCE 1 1-2 UNITS**

An introductory course in salsa music and the basics of salsa dance. Various patterns will be introduced, allowing students to improve their technique and develop a strong awareness of the rhythm of the dance. No partner required. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN SI SOCCER-INDOOR 1-2 UNITS**

Course will incorporate Indoor Soccer Principles of Play. This includes on offense; the responsibilities of the 1st attacker (when and how to penetrate), 2nd attacker (support), and 3rd attacker (width and depth). Additional instruction incorporates defensive responsibilities of the 1st defender (pressure and delay), 2nd defender (depth), and 3rd defender (balance). 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN SW1 SWIMMING 1 1-2 UNITS**

An introductory course designed to teach basic swimming skills and is designed for non-swimmers who cannot complete one length of the pool (25 yards). Emphasis will be on the physical and psychological adjustment to the water as well as basic swimming stroke technique. Students will also learn aquatics safety methods. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN SW2 SWIMMING 2 1-2 UNITS**

This is a beginning level course designed to teach fundamental swimming skills. Emphasis will be on developing basic swimming techniques for the freestyle and backstroke, and include an introduction to breaststroke, butterfly, and sidestroke. Students will also learn aquatic safety methods. Strongly recommended: KIN SW1 (completed with a grade of "C" or higher). 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN SW4 SWIMMING 4 1-2 UNITS**

This is an advanced course designed to enhance the overall knowledge and technique for the aspiring swimmer. Instruction will include an in depth analysis of stroke, turn, and start techniques used in competition (Intercollegiate, High School, Open Water, Triathlon, USA Swimming, and Recreational League). Strongly recommended: KIN SW3. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN SWF1 SWIMMING FOR FITNESS 1 1-2 UNITS**

This course is designed to introduce students to conditioning for swimming. This is a broad level course that will utilize a variety of strokes to increase cardiovascular fitness, as well as introduce the students to different training methodologies. Strongly recommended: KIN SW2. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN SWF3 SWIMMING FOR FITNESS 3 1-2 UNITS**

This is an intermediate level swim fitness course with an emphasis in middle distance training. This course will teach the student about the different aspects of middle distance training for freestyle as they relate to specific race distances: 200, 400, and 500. Instruction will also focus on the 200 & 400 Individual Medley and the 200's of the strokes (backstroke, breaststroke, and butterfly). Strongly recommended: KIN SWF1 and KIN SW3. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN SWF4 SWIMMING FOR FITNESS 4 1-2 UNITS**

This is an intermediate level swim fitness course with an emphasis in distance training. This course will teach the student about the different aspects of distance training for freestyle as they relate to specific race distances: 800/1500 meters and 1000/1650 yards. Instruction will also include an introduction to open water swimming techniques and strategies. Strongly recommended: KIN SWF1 and KIN SW3. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN TN1 INTRODUCTORY TENNIS 1-2 UNITS**

This course is an introduction to the game of Tennis. The rules, regulations, etiquette, equipment required and appropriate apparel will be presented. The fundamentals of tennis including footwork, forehand, backhand and service will be taught and developed. Discussion of the terminology, scoring and singles versus doubles play are included. Beginning to Intermediate level players would benefit from this skills course. This course will be offered off campus at a designated tennis court location. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN UF2 ULTIMATE FRISBEE 2 1-2 UNITS**

This is a beginning/intermediate level course designed to enhance skills that pertain to the sport of Ultimate Frisbee. Instruction will include throwing, catching, pivoting and marking skills. Offensive and defensive strategies will be introduced. Strongly recommended: KIN UF1. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN UF3 ULTIMATE FRISBEE 3 1-2 UNITS**

This is an advanced level course designed to master the skills necessary to compete in the sport of ultimate frisbee. Instruction will include increasing throwing distance and accuracy, offensive and defensive strategies, and aerobic conditioning. Strongly recommended: KIN UF2 (completed with a grade of "C" or higher). 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN UF4 ULTIMATE FRISBEE 4 1-2 UNITS**

This is a progressive competitive level course designed to prepare students for tournament play in the sport of ultimate frisbee. Instruction will provide a strong emphasis on high levels physical conditioning required for competitive play such as agility, speed, and endurance. Instruction will discuss successful game management and coaching philosophy. Prerequisite: KIN UF3 (completed with a grade of "C" or higher). 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN VB1 VOLLEYBALL BEGINNING 1-2 UNITS**

Provides instruction on the individual and team skills and strategies of volleyball. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN VB2 VOLLEYBALL INTERMEDIATE 1-2 UNITS**

This is a course designed and developed for the intermediate level volleyball player. It is a continuation of beginning volleyball with an emphasis in executing the fundamental skills and techniques of power volleyball at a higher level. This course differs from beginning volleyball in that set patterns and systems of offense and defense are used in a team strategy. Before enrolling student should have proficiency in the skills of passing and setting. Strongly recommended: KIN VB1 (completed with a grade of "C" or higher). 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN VB3 VOLLEYBALL ADVANCED 1-2 UNITS**

Advanced techniques of volleyball with emphasis on competitive play. Strongly recommended: KIN VB2 (completed with a grade of "C" or higher). 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN WP1 WATER POLO 1 1-2 UNITS**

This course is an introduction to the sport of Water Polo. Instruction will include individual skills relating to the play of water polo. Instruction will also include rules, regulations, and basic team play. Strongly recommended: KIN SW2 (completed with a grade of "C" or higher). 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN WP2 WATER POLO 2 1-2 UNITS**

This is an intermediate course designed to give the student the opportunity to learn and enhance personal and team skills relating to the game of Water Polo. Instruction will focus on advancing individual skills, team strategies, and an appreciation

for competition. Strongly recommended KIN SP1 and KIN SW2. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN WP3 WATER POLO 3 1-2 UNITS**

This course is designed to give students the opportunity to learn and apply specific conditioning skills relating to the game of Water Polo. Instruction will focus on speed, quickness, strength, and cardiovascular conditioning in the pool as they relate to the play of Water Polo. Concepts of dryland training and periodization will be discussed. Strongly recommended: KIN SP1 and KIN SW2 (completed with a grade of "C" or higher). 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN WT1 WEIGHT TRAINING 1 1-2 UNITS**

This course provides an introduction to weight training. Students will learn how to improve muscle strength and muscle endurance through the correct application of basic weight training principles. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN WT2 WEIGHT TRAINING 2 1-2 UNITS**

Weight Training 2 is a continuation course to the Basic course WTW1. The Principles of Training, Level 2 terminology and weight training biomechanics will be presented. Level 2 programs and possible variations will be applied in the prescription of the personal weight training program. The course will incorporate lectures on possible injuries and prevention in a more advanced weight training setting. Implementation of goal setting, tracking, analyzing, progressing individual programs will be included. Strongly recommended: KIN WT1 (completed with a grade of "C" or higher). 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN WTW WEIGHT TRAINING FOR WOMEN 1-2 UNITS**

An opportunity for the female student to improve strength and endurance through the correct application of sound training principles. Students will be presented instruction on how to development and maintain the components of fitness: muscular strength, muscular endurance, cardiovascular endurance, flexibility and body composition. Students will learn how to safely and effectively strength train the female body. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit Grading Option: OP

**KIN WTW2 WOMEN'S CIRCUIT TRAINING 1-2 UNITS**

This course will present the basic tenets of Circuit Training. The Circuits to be introduced are Power Circuits, Strength Circuits

and Cardio-Resistance Circuits. The Course will include basic muscle anatomy & anatomical movement terminology as it relates to weight training, instruction on use of equipment and safety guidelines, physiological changes in aerobic capacity and body composition secondary to the circuits, and pre/post physical fitness assessments to establish a baseline for current level of conditioning and improvement made over the course of the semester. Strongly recommended: KIN WTW (completed with a grade of "C" or higher). 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit

Grading Option: OP

**KIN XT1 X-TRAINING****1-2 UNITS**

This kinesiology class will offer the student an opportunity to learn how to exercise safely in a Weight/Cardio gym. Circuit, Interval and Cross Training programs will be introduced. The topics of discussion will include: equipment orientation and safety, Principles of Resistance and Aerobic Training, energy systems used for various training regimens, and the benefits of exercise in establishing and maintaining a healthy lifestyle throughout life. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit

Grading Option: OP

**KIN YO2 YOGA 2****1-2 UNITS**

This is an intermediate Hatha Yoga course that emphasizes intense stretching, balancing, and building of muscular strength. A series of poses and breathing techniques will be practiced in order to create a more strenuous yoga experience. Emphasis will be on the principles of healthy living, along with proper posture, relaxation and meditation techniques. Strongly recommended: KIN YO1 (completed with a grade of "C" or higher). 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit

Grading Option: OP

**KIN YOF YOGA FITNESS****1-2 UNITS**

This yoga fitness course provides a unique combination of yoga and fitness principles. Discussion of the philosophy of yoga and the implications it has on one's health. Emphasis is on developing muscle endurance and strength, body alignment, balance, flexibility and core stability through a series of exercises and poses. Student will learn how to recognize their own individual strengths and limitations. Relaxation techniques will be taught for stress reduction and general well being. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit

Grading Option: OP

**Kinesiology Theory Courses (KIN)****KIN 29 INDEPENDENT STUDY****0.5-2 UNITS**

Supervised study in the area of Kinesiology. Any student interested in registering for an Independent Studies course should contact a full/part-time instructor or dean in the appropriate area no later than the last day of the tenth week of instruction. 27-108 hours laboratory, for 0.5 to 2 laboratory units. Transfer: CSU, UC.

Degree Applicable, Credit

Grading Option: GR

**Kinesiology Intercollegiate Athletics Courses (KIN)****KIN 31A PRE-SEASON CONDITIONING****1-2 UNITS****FOR INTERCOLLEGIATE BASKETBALL (MEN'S)**

This course is designed to provide the student with an opportunity to develop the skills and physical conditioning, along with the understanding of basketball at the advanced level in preparation for intercollegiate competition. Skills such as dribbling, passing, shooting, defensive and offensive strategies will be presented and practiced. Team play and sportsmanship are important priorities that are emphasized in this class. Fall semester. 54-108 hours laboratory for 1-2 laboratory units.

AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit

Grading Option: GR

**KIN 38A PRESEASON INTERCOLLEGIATE****1-2 UNITS****MEN'S SOCCER**

Students will work on fundamental skills of soccer, such as, kicking, passing, trapping, heading and physical conditioning which are needed for controlled outdoor higher levels of soccer play, discuss and employ basic offensive and defensive strategies and tactics; use and apply the rules governing outdoor soccer play. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit

Grading Option: GR

**KIN 38B INTERCOLLEGIATE SOCCER****2 UNITS**

Training for soccer competition at the collegiate level. Daily practice will take place which will include training students to perform at the college competitive level for the Coast Conference Soccer League of Northern California. Prepares the individual for intercollegiate competition in the sport of soccer using such skills as trapping, passing, and heading as well as offensive and defensive strategies and tactics. Students must meet California Community College eligibility requirements as established by the California Commission on Athletics. Strongly recommended: KIN 38A (completed with a grade of "C" or higher). 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.

Degree Applicable, Credit

Grading Option: GR



**KIN 38C POST SEASON INTERCOLLEGIATE MEN'S SOCCER 1-2 UNITS**

Students will learn and develop fundamental to advanced outdoor soccer skills of kicking, passing and conditioning necessary for playing field soccer at an intercollegiate level. Students will learn the rules governing outdoor soccer play. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.  
Degree Applicable, Credit Grading Option: GR

**KIN 41A PRE-SEASON CONDITIONING FOR INTERCOLLEGIATE BASKETBALL (WOMEN'S) 1-2 UNITS**

This course is designed to provide the student with an opportunity to develop the skills and physical conditioning, along with the understanding of basketball at the advanced level in preparation for intercollegiate competition. Skills such as dribbling, passing, shooting, defensive and offensive strategies will be presented and practiced. Team play and sportsmanship are important priorities that are emphasized in this class. Fall semester. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.  
Degree Applicable, Credit Grading Option: GR

**KIN 41D OFF SEASON INTERCOLLEGIATE WOMEN'S BASKETBALL 1-2 UNITS**

Students will practice the skills of dribbling, passing, shooting and defense necessary for competitive basketball play; put into practice the governing rules of basketball; learn about the appropriate terminology used in basketball and the safety procedures related to the game. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.  
Degree Applicable, Credit Grading Option: GR

**KIN 48A PRESEASON INTERCOLLEGIATE WOMEN'S SOCCER 1-2 UNITS**

Students will practice the skills of kicking, passing, trapping and heading necessary for controlled outdoor soccer play; discuss and employ basic offensive and defensive strategies and tactics; put into practice the rules governing outdoor soccer play. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.  
Degree Applicable, Credit Grading Option: GR

**KIN 48B INTERCOLLEGIATE ATHLETICS: WOMEN'S SOCCER 1-2 UNITS**

Instruction and intercollegiate competition is offered in this sport to those students who are selected, based on tryouts, prior to the start of the sport season. Strongly recommended: KIN 48A (completed with a grade of "C" or higher). 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.  
Degree Applicable, Credit Grading Option: GR

**KIN 48C OFF SEASON INTERCOLLEGIATE WOMEN'S SOCCER 1-2 UNITS**

Students will practice the skills of kicking, passing, trapping and heading necessary for controlled outdoor soccer play; put into practice the rules governing outdoor soccer play; learn about the appropriate terminology used in soccer and the safety procedures related to the soccer game. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.  
Degree Applicable, Credit Grading Option: GR

**KIN 51 PRE-SEASON TRAINING - SWIMMING & DIVING 1-2 UNITS**

This course is designed to give student-athletes participating in intercollegiate swimming and diving the opportunity to enhance fitness levels and skills prior to competition season. Course content will include technique, aerobic conditioning, race specific training, and dryland/weight training. Strongly recommended: KIN SW3. 54-108 hours laboratory for 1-2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E; \*Max UC credit is 4 units of KIN activity courses.  
Degree Applicable, Credit Grading Option: OP

**KIN 60 INTERCOLLEGIATE WATER POLO -- MEN'S 2 UNITS**

This course is for Intercollegiate Men's Water Polo competition conducted through the NCAA and CCCAA. Defensive and offensive strategies, swimming mechanics, and water polo ball skills appropriate to intercollegiate athletic competition will be expected of the participants. Strongly recommended: KIN SW3 and KIN WP2 (completed with a grade of "C" or higher). 108 hours laboratory for 2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.  
Degree Applicable, Credit Grading Option: GR

**KIN 65 INTERCOLLEGIATE WATER POLO -- WOMEN'S 2 UNITS**

This course is for Intercollegiate Women's Water Polo competition conducted through the NCAA and CCCAA. Defensive and offensive strategies, swimming mechanics, and water polo ball skills appropriate to intercollegiate athletic competition will be expected of the participants. This course may be taken four times for credit. Strongly recommended: KIN SW3 and KIN WP2 (completed with a grade of "C" or higher). 108 hours laboratory for 2 laboratory units. AA/AS GE. Transfer: CSU, UC\*; CSU GE Area E. \*Max UC credit, 4 units of KIN activity courses.  
Degree Applicable, Credit Grading Option: GR

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**Library Studies (LIBR)**

These courses have corrections only to the Grading Option.

**LIBR 4 INTRODUCTION TO RESEARCH IN THE LIBRARY 0.5 UNITS**

Grading Option: P/N

**LIBR 5 INTRODUCTION TO GENERAL RESEARCH DATABASES 0.5 UNITS**

Grading Option: P/N

**LIBR 6 INTRODUCTION TO SPECIALIZED RESEARCH DATABASES 0.5 UNITS**

Grading Option: P/N

**LIBR 7 INTRODUCTION TO INTERNET RESEARCH 0.5 UNITS**

Grading Option: P/N

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**Mass Communications (MSCM)****MSCM 5 INTRODUCTION TO MASS COMMUNICATIONS 3 UNITS**

C-ID# JOUR 100

**MSCM 16A EXPRESS COLLEGE NEWSPAPER A 3 UNITS**

C-ID# JOUR 130

**MSCM 16B EXPRESS COLLEGE NEWSPAPER B 3 UNITS**

C-ID# JOUR 131

**MSCM 16C EXPRESS COLLEGE NEWSPAPER C 3 UNITS**

An applied course in which students practice and refine advanced journalism skills, including recognizing, acquiring, producing, and distributing content for the print and online editions of the student newspaper, the Express. Focus is on leadership, editing the work of others, improving writing and multimedia skills, and improving the Express. Enhanced leadership role includes outreach to the community and representation as journalist and leader at events. Students develop advanced abilities in writing, photojournalism, business management, graphic arts, design, social media, and leadership and editing skills. Students will produce newscasts, an infographic, and reader surveys. The course includes ethical, practical, and legal issues in journalism. Students should serve in a leadership role. Prerequisite: MSCM 16B (completed with a grade of "C" or higher). 1 hour lecture, 6 hours laboratory for 2 laboratory units. Transfer: CSU (pending as of 2/18/15). Degree Applicable, Credit Grading Option: OP

**MSCM 16D EXPRESS COLLEGE NEWSPAPER D 3 UNITS**

An applied capstone course in which students practice and refine advanced journalism skills, including recognizing, acquiring, producing, and distributing content for the print and online editions of the student newspaper, the Express. Focus is on completing a portfolio project, exploring career opportunities in the field, leading others, editing the work of others, improving writing and multimedia skills, and improving the Express. Students work to develop advanced abilities in writing, photojournalism, business management, graphic arts, design, social media, leadership, and editing skills. The course includes ethical, practical, and legal issues in journalism. Student assumes a leadership role and create workshops to benefit other staff members. MSCM 16B (completed with a grade of "C" or higher). 1 hour lecture, 6 hours laboratory for 2 laboratory units. Transfer: CSU (pending 2/18/15). Degree Applicable, Credit Grading Option: OP

**MSCM 19 LAS POSITAS LITERARY ANTHOLOGY A 3 UNITS**

Creation of a literary-style student magazine. Practical training in the managing, editing, formatting, and printing of a literary supplement and/or magazine. Enrollment constitutes the staff of the magazine. The number of laboratory units will be agreed upon and scheduled by instructor and student based on the student's job description and availability to participate. 2 hours lecture, 3 hours laboratory for 1 laboratory unit. (Cross List with ENG 19A. A student who has successfully completed ENG 19A cannot enroll in MSCM 19A.) 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, PHTO 56 or VCOM 53. 1.5 hours lecture, 6 hours studio laboratory for 1.5 laboratory hours. Transfer: CSU, UC. C-ID# JOUR 160. Degree Applicable, Credit Grading Option: OP

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**Mathematics (MATH)****MATH 20 PRE-CALCULUS MATHEMATICS 5 UNITS**

Rational and polynomial functions with emphasis on logical development and graphing. Solution of polynomial equations and inequalities, graphing conic sections, mathematical induction, binomial theorem; strengthening of skills in working with exponential, logarithmic, and trigonometric functions, equations, graphs, and applications. Prerequisite: MATH 38 (completed with a grade of "C" or higher) or an appropriate skill level demonstrated through the Mathematics assessment process. 5 hours lecture, 1 hour laboratory. AA/AS GE. Transfer: CSU, UC\*; CSU GE: B4; IGETC: 2A; \*MATH 20 and 45 combined: max UC credit, one course. Degree Applicable, Credit Grading Option: GR

**MATH 38 TRIGONOMETRY WITH GEOMETRY 5 UNITS**

Plane trigonometry with topics from plane geometry. Geometry includes properties of polygons, parallel and perpendicular lines, congruence and similarity, area, volumes and surface area. Trigonometry includes definitions of the trigonometric functions, graphs of the trigonometric functions, trigonometric equations and inverse trigonometric functions, identities, polar coordinates and complex numbers. Applications involving right triangles, law of sines and law of cosines. Prerequisite: MATH 55 or MATH 55B (completed with a grade of "C" or higher). 5 hours lecture, 1 hour laboratory. AA/AS GE. Transfer: CSU; CGU GE: B4. Degree Applicable, Credit Grading Option: GR

**MATH 40 STATISTICS AND PROBABILITY 4 UNITS**

Descriptive statistics, including measures of central tendency, dispersion and position; elements of probability; confidence intervals; hypothesis tests; two-population comparisons; correlation and regression; goodness of fit; analysis of variance; applications in various fields. Introduction to the use of a computer software package to complete both descriptive and inferential statistics problems. Prerequisite: MATH 55 or MATH 55B (completed with a grade of "C" or higher). 4 hours lecture, 1 hour laboratory. Transfer: CSU, UC; CSU GE: B4; IGETC: 2A. C-ID# MATH 110.

Degree Applicable, Credit

Grading Option: GR

**MATH 55 INTERMEDIATE ALGEBRA 5 UNITS**

Intermediate algebra concepts, including: An introduction to functions; linear and absolute value functions; absolute value equations and inequalities; compound linear inequalities; systems of linear equations in three variables and matrix solutions; rational expressions, functions and equations; radical expressions, functions and equations; rational exponents; complex numbers; quadratic functions and equations; inverse of a function; exponential and logarithmic functions; properties of logarithms; exponential and logarithmic equations; conic sections; and systems of non-linear equations and inequalities. Multiple representations, applications and modeling with functions are emphasized throughout. May not receive credit if Mathematics 55B has been completed. Prerequisite: MATH 65 or MATH 65B (completed with a grade of "C" or higher). 5 hours lecture, 1 hour laboratory. AA/AS GE.

Degree Applicable, Credit

Grading Option: OP

**MATH 55A INTERMEDIATE ALGEBRA A 2.5 UNITS**

Concepts covered in the first half of Mathematics 55 Intermediate Algebra, including: An introduction to functions; linear and absolute value functions; absolute value equations and inequalities; compound linear inequalities; rational expressions, functions and equations; radical expressions, functions and equations; rational exponents; and complex numbers. Multiple representations, applications and modeling with functions are emphasized throughout. May not receive credit if Mathematics 55 has been completed. Prerequisite: MATH 65 or MATH 65B (completed with a grade of "C" or higher). 2.5 hours lecture, 1 hour laboratory. AA/AS GE.

Degree Applicable, Credit

Grading Option: OP

**MATH 55B INTERMEDIATE ALGEBRA B 2.5 UNITS**

Concepts covered in the second half of Mathematics 55 Intermediate Algebra, including: systems of linear equations in three variables and matrix solutions; inverse of a function; exponential and logarithmic functions; properties of logarithms; exponential and logarithmic equations; conic sections; systems on non-linear equations and inequalities. Multiple representations, applications and modeling with functions are emphasized throughout. May not receive credit if Mathematics 55 has been completed. Prerequisite: MATH 55A (completed with a grade of "C" or higher). 2.5 hours lecture, 1 hour laboratory. AA/AS GE.

Degree Applicable, Credit

Grading Option: OP

**MATH 65 ELEMENTARY ALGEBRA 5 UNITS**

Elementary algebra concepts, including: real numbers and their properties; algebraic expressions; integer exponents; operations with polynomial expressions; linear and quadratic equations; linear inequalities and set notation; graphs of linear equations and inequalities; slope; systems of linear equations and inequalities; and, an introduction to rational expressions and modeling with linear and quadratic equations. May not receive credit if Mathematics 65B has been completed. Prerequisite: MATH 107 or MATH 107B (completed with a grade of "C" or higher). 5 hours lecture, 1 hour laboratory. AA/AS GE.

Degree Applicable, Credit

Grading Option: OP

**MATH 65 ELEMENTARY ALGEBRA B 2.5 UNITS**

Concepts covered in the second half of MATH 65, Elementary Algebra, including: integer exponents; quadratic equations and modeling with quadratic equations; and an introduction to rational expressions. Prerequisite: MATH 65A or 65X (completed with a grade of "C" or higher). May not receive credit if either MATH 65 or MATH 65Y has been completed. 2.5 hours lecture, 1 hour laboratory. AA/AS GE.

Degree Applicable, Credit

Grading Option: OP

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**Microbiology (MICR)****MICR 1 SEE BIO 7C**

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**Philosophy (PHIL)****PHIL 6 INTRODUCTION TO LOGIC 3 UNITS**

An introduction to Logic. This course is designed to develop effective reasoning skills. Valid reasoning through formal deductive logic is emphasized, but the course also covers meaning in language, fallacies, and inductive reasoning methods in philosophy, literature and the sciences. Strongly recommended: Eligibility for ENG 1A. 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: A3. C-ID# PHIL 110.

Degree Applicable, Credit

Grading Option: GR

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**Photography (PHTO)****PHTO 72 DOCUMENTARY PHOTOGRAPHY 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 or VCOM 53 or PHTO 56. 1.5 hours lecture, 4 hours laboratory for 1.5 laboratory units. Transfer: CSU. C-ID# JOUR 160.

Degree Applicable, Credit

Grading Option: OP



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## Physiology (PHSI)

PHSI 1 SEE BIO 7B

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## Psychology—Counseling (PSCN)

**PSCN 30 STUDENT SUCCESS AND THE COLLEGE EXPERIENCE** 3 UNITS

This course explores concepts, knowledge, and skills relevant to college success. Students will engage in critical analysis on a variety of topics, including motivation, decision making, interpersonal communication, multicultural awareness, and learning theory. Problem solving strategies will be applied to areas including goal setting, career development, wellness, and accessing campus resources. 3 hours lecture. Transfer: CSU, UC; CSU GE: Area E.

Degree Applicable, Credit Grading Option: OP

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## Psychology Courses (PSYC)

**PSYC 25 RESEARCH METHODS** 4 UNITS

C-ID# PSY 200 OR PSY 205B

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## Speech Courses (SPCH)

**SPCH 1 FUNDAMENTALS OF SPEECH COMMUNICATION** 3 UNITS

C-ID# COMM 110

**SPCH 3 GROUP COMMUNICATION** 3 UNITS

C-ID# COMM 140

**SPCH 10 INTERPERSONAL COMMUNICATIONS** 3 UNITS

C-ID# COMM 130

**SPCH 11 INTERCULTURAL COMMUNICATIONS** 3 UNITS

C-ID# COMM 150

**SPCH 46 ARGUMENTATION AND DEBATE** 3 UNITS

C-ID# COMM 120

**SPCH 48 ACTIVITIES IN FORENSICS** 1-4 UNITS

C-ID# 160B

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## Theater Arts (THEA)

**THEA 3A BEGINNING IMPROVISATION** 3 UNITS

An entry level course designed to introduce to students to concepts of improvisation and creative dramatics . It will encourage students to "think out of the box", promoting creative problem solving within a supportive ensemble. Recommended for non-majors (Early Childhood education, Business, Speech/Communication majors especially encouraged) as well as Theatre: AA students. 3 hours lecture. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

**THEA 3B INTERMEDIATE IMPROVISATION** 3 UNITS

This course will teach students Long-Form Improvisation. The class will concentrate on finding style and improving skills through various in class, supportive, exercises. We will focus on accepting/supporting, creating honest and strong relationship, and developing complex and engaging circumstances. Prerequisite: THEA 3A (completed with a grade of "Pass" or "C" or higher). 3 hours lecture. Transfer: CSU, UC.

Degree Applicable, Credit Grading Option: OP

**THEA 10 INTRODUCTION TO DRAMATIC ARTS** 3 UNITS

A survey of the elements of Theater event, its contribution to cultures and societies throughout history. Strongly recommended: Eligibility for ENG 1A. 3 hours lecture. AA/AS GE. Transfer: CSU, UC; CSU GE: C1; IGETC: 3A. C-ID# THTR 111.

Degree Applicable, Credit Grading Option: GR

**THEA 47A PERFORMANCE IN PRODUCTION: INTRODUCTION TO LIVE PERFORMANCE** 3 UNITS

This course provides instruction and supervised participation in theatre rehearsal and performance. On stage participation in cast of scheduled main stage production. Enrollment is for the duration of the production. 2 hours lecture, 3 hours laboratory for 1 laboratory unit. Transfer: CSU, UC. C-ID# THTR 191.

Degree Applicable, Credit Grading Option: GR

**THEA 47B PERFORMANCE IN PRODUCTION: BEGINNING** 3 UNITS

As a continuation of THEA 47A, students will participate in the cast of a scheduled main stage production. Emphasis will be on character development, objectives, and actions. Prerequisite: THEA 47A (completed with a grade of "C" or higher). 2 hours lecture, 3 hours laboratory for 1 laboratory unit. Transfer: CSU, UC

Degree Applicable, Credit Grading Option: GR

**THEA 47C PERFORMANCE IN PRODUCTION: INTERMEDIATE** 3 UNITS

This course is a continuation of THEA 47B. Student will participate in the cast of a scheduled main stage production. This course will focus on rehearsal technique, personal creative exploration, and ensemble building and motivated performance response. Prerequisite: THEA 47B (completed with a grade of "C" or higher). 2 hours lecture, 3 hours laboratory for 1 laboratory unit. Transfer: CSU, UC

Degree Applicable, Credit Grading Option: GR

**THEA 47D PERFORMANCE IN PRODUCTION: ADVANCED** 3 UNITS

As a continuation of THEA 47C, students will continue to develop onstage with participation in the cast of the scheduled main stage production. This course will emphasize complexity and polish in performance, personal and creative development as a theater professional, and outreach and publicity obligations. Prerequisite: THEA 47C (completed with a grade of "C" or higher). 2 hours lecture, 3 hours laboratory for 1 laboratory unit. Transfer: CSU, UC

Degree Applicable, Credit Grading Option: GR

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**THEA 48A TECHNICAL THEATER IN PRODUCTION - 3 UNITS  
BEGINNING**

Students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Enrollment is for the duration of the semester. Strongly recommended: THEA 50 completed with a grade of "C" or higher. 1 hour lecture, 6 hours laboratory for 2 laboratory units. Transfer: CSU, UC. C-ID# THTR 192.  
Degree Applicable, Credit Grading Option: OP

**THEA 48B TECHNICAL THEATER IN PRODUCTION - 3 UNITS  
INTERMEDIATE**

Participation in scheduled productions and events as crew members and/or construction of said productions technical elements, including lighting and sound implementation. Enrollment is for the duration of the semester. Students may participate in the design and board operation of multiple productions or events per semester. Strongly recommended: THEA 50 completed with a grade of "C" or higher and THEA 48A. 1 hour lecture, 6 hours laboratory for 2 laboratory units. Transfer: CSU, UC  
Degree Applicable, Credit Grading Option: OP

**THEA 48C TECHNICAL THEATER IN PRODUCTION - 3 UNITS  
ADVANCED**

Participation in scheduled productions as DESIGNER and/or assistant designers of said productions technical elements, including scenic, costume, lighting and sound design. Enrollment is for the duration of the semester. Students may participate in more than one production per semester, as needed. Prerequisite: THEA 50 (completed with a grade of "C" or higher). 1 hour lecture, 6 hours laboratory for 2 laboratory units. Transfer: CSU, UC.  
Degree Applicable, Credit Grading Option: OP

**THEA 48D TECHNICAL THEATER IN 3 UNITS  
PRODUCTION-MANAGEMENT**

Participation in scheduled productions as manager of productions technical elements, including stage management, house management, and publicity management. Enrollment is for the duration of the semester. Students may participate in more than one production or event per semester. Prerequisite: THEA 50 (completed with a grade of "C" or higher). 1 hour lecture, 6 hours laboratory for 2 laboratory units. Transfer: CSU.  
Degree Applicable, Credit Grading Option: OP

**THEA 50 STAGECRAFT 3 UNITS**

An introduction to technical theatre and the creation of scenic elements. Includes basic concepts of design, painting techniques, set construction, set movement, prop construction, backstage organization, and career possibilities. May include stage management, lighting, and/or sound techniques. Lecture, reading, projects, and practical experience. 1 hour lecture, 6 hours laboratory for 2 laboratory units. Transfer: CSU, UC; CSU GE: C1. C-ID# THTR 171.  
Degree Applicable, Credit Grading Option: GR

**THEA 50L INTRODUCTION TO STAGE LIGHTING 3 UNITS**

This course involves the study and execution of stage lighting with emphasis on equipment, control, color and their relationship to design. Introduction to stage lighting design. Physics of light, color, electricity; components of basic lighting technology; comprehensive overview of the art of theater lighting design. Strongly recommended: THEA 50 (completed with a grade of "C" or higher). 1 hour lecture, 6 hours laboratory for 2 laboratory units. Transfer: CSU, UC. C-ID# THTR 173.  
Degree Applicable, Credit Grading Option: OP

**THEA 51 INTRODUCTION TO COSTUME DESIGN 3 UNITS**

Students will study costume history, design, and basic construction techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated. Design and fabrication of costumes for production; components of basic sewing and costume construction; comprehensive overview of the history of fashion and costume, color, manufacturing techniques; Introduction to basic makeup design; makeup application techniques and design; special effects makeup techniques. Strongly recommended: THEA 50 (completed with a grade of "C" or higher). 2 hours lecture, 3 hours laboratory for 1 laboratory unit. Transfer: CSU; CSU GE: C1. C-ID# THTR 174.  
Degree Applicable, Credit Grading Option: GR

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**Tutoring (TUTR)****TUTR 17A TUTORING THEORY AND PRACTICE I 0.5 UNITS**

Training for college tutors to acquire specific skills and techniques for tutoring in academic and vocational subject areas, and basic skills. The course will provide a conceptual framework of tutoring to guide students in leading effective tutoring sessions. 0.5 hours lecture, 1 hour laboratory. Transfer: CSU  
Degree Applicable, Credit Grading Option: OP

**TUTR 17B TUTORING THEORY AND PRACTICE II 0.5 UNITS**

Intermediate training class for college tutors. Tutors will acquire specific skills and techniques for tutoring in academic subjects, vocational subjects and basic skills. Required course for second semester tutors participating in the Las Positas College Tutorial Program. Prerequisite: TUTR 17A. 0.5 hours lecture, 1 hour laboratory. Transfer: CSU  
Degree Applicable, Credit Grading Option: OP

**TUTR 17C TUTORING THEORY AND PRACTICE III 0.5 UNITS**

Advanced training for college tutors to obtain skills and techniques in academic and vocational subject areas and basic skills remediation. Emphasis upon leading group tutoring sessions, mentoring new tutors, and tutoring students with learning disabilities. Required course for third semester tutors participating in the Las Positas College Tutorial Program. Prerequisites: TUTR 17B. 0.5 hours lecture, 1 hour laboratory. Transfer: CSU  
Degree Applicable, Credit Grading Option: OP

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## Visual Communications (VCOM)

**VCOM 50 VISUAL COMMUNICATIONS AND THE PROCESS OF DESIGN** 2 UNITS

C-ID# ARTS 250

**VCOM 51 COLOR FOR DESIGN** 2 UNITS

C-ID# ARTS 250

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## Welding Technology (WLDT)

**WLDT 79 MANUFACTURING PROCESSES** 2 UNITS

This course examines the processes and equipment used in modern manufacturing. This course provides an excellent introduction to today's manufacturing processes, as well as an overview of the processes and equipment used in modern manufacturing. The course concentrates on the five major types of industrial materials; metals, plastics, ceramics, woods, and composites. It provides thorough coverage of the forming, separating, fabricating, conditioning, and finishing processes related to each material. The course also includes the materials and manufacturing processes used in packaging finished goods. The proper and safe use of hand tools, basic shop tools, manufacturing and welding equipment will be covered. Understanding the relationship between manufacturing processes, materials properties, materials processing and design. 1.5 hours lecture, 2 hours laboratory for 0.5 laboratory units. Transfer: CSU

Degree Applicable, Credit

Grading Option: OP

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## Zoology (ZOOL)

**ZOOL 1 SEE BIO 1B**

## COURSE DEACTIVATIONS

AUTO 70B ENHANCED CLEAN AIR CAR COURSE  
 AUTO 71A AUTO ELECTRICAL/ELECTRONIC SYSTEMS  
 AUTO 71B ENGINE PERFORMANCE SYSTEMS  
 AUTO 71C ADVANCED ENGINE PERFORMANCE  
 CNT 63 CISCO CCNP SEMESTER 5 ADVANCED ROUTING  
 CNT 64 CISCO CCNP SEMESTER 6 REMOTE ACCESS  
 CNT 65 CISCO CCNP SEMESTER 7 MULTILAYER SWITCHING  
 CNT 66 CISCO CCNP SEMESTER 8 INTERNETWORKING TROUBLESHOOTING  
 CNT 9902 COMPUTER FORENSICS  
 CNT 9907 CCNP BOOT CAMP CERT PREP  
 EMS 51 EMT-P HUMAN SYSTEMS  
 EMS 53 EMT-P MEDICAL SYNDROMES  
 EMS 54 EMT-P ABD AND NEURO SYSTEMS  
 EMT 55 EMT-P CARDIAC AND RESP SYSTEMS  
 EMS 56 EMT-P TRAUMA AND SHOCK  
 EMS 57 EMT-P SPECIAL PATIENT POPULATIONS  
 EMS 58 EMT-P PARAMEDIC FIELD TRAINING  
 KIN 1RC ROCK CLIMBING  
 KIN 1WMB WELLNESS AND THE MOVING BODY  
 KIN JD JAZZ DANCE  
 KIN SB SOFTBALL  
 KIN TCT TRAINING & CONDITIONING FOR TRACK & FIELD  
 KIN TS TEAM SPORTS  
 MKTG 52 MARKETING STRATEGY  
 MKTG 63 SALES FORCE MANAGEMENT  
 PHT 29 INDEPENDENT STUDY – PHARMACY TECHNOLOGY  
 PHT 50 PHARMACY TECH TRAINING I – INTRO  
 PHT 51 ADVANCED PHARMACY OPERATIONS  
 PHT 52 PHARMACOLOGY FOR PHARM TECH I  
 PHT 53 PHARMACOLOGY FOR PHARM TECH II  
 PHT 54 PHARM TECH CLINICAL PRACTICE  
 PSYC 2 PSYCHOLOGICAL METHODOLOGY  
 SURG 50 BASIC/BIOMEDICAL SCI-SURG TECH  
 SURG 51 SURGICAL PATIENT CARE CONCEPTS  
 SURG 52 SURGICAL SPECIALTIES  
 SURG 53 CLINICAL PRACTICE – SURG TECH