**ADMINISTRATION OF JUSTICE**

Division: Humanities, Social Sciences, and Mathematics

**AJ-101**  
Administration of Justice  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course covers the history and philosophy of administration of justice in America as well as recapitulation of the system identifying the various sub-systems and their relationships. Theories of crime, punishment, ethics, education and training for professionalism in the system are explored. (GR)

**AJ-102**  
Criminal Law  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course covers concepts of criminal law: historical development, philosophy of law, and constitutional provisions. Also covered will be classifications of crime and their application to the system of administration of justice. In addition, the course covers legal research, study of case law, methodology, and concepts of law as a social force. (GR)

**AJ-104**  
Criminal Evidence  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU  
This course covers the legal aspects of evidence. The origin, development, philosophy, and constitutional basis of evidence, along with constitutional and procedural considerations affecting arrest, search and seizure, kinds and degrees of evidence, and rules governing admissibility are studied. Judicial decisions interpreting individual rights and case studies are used to interpret the material. (GR)

**AJ-106**  
Criminal Procedure  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course covers the principles and procedures of the justice system. The course is an in-depth study of the role and responsibilities of each segment within the Administration of Justice system – law enforcement, judicial, and corrections. (GR)

**AJ-107**  
Criminal Investigation  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course covers the nature of investigation, crime scene search and recording, interviews and interrogation, sources of information, case preparation, and investigative techniques in specific crimes. (GR)

**AJ-108**  
Introduction to Forensic Anthropology  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: ANTH-108  
Advisory: ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course introduces the field of forensic anthropology through a study of the history and methods of forensic anthropology and the role it plays in the medico-legal system. Topics include the human skeletal system, forensic archaeology, recovery and techniques for analyzing human skeletal remains. (GC)

**AJ-115**  
Cyber Crime  
54.00 hrs lecture, 18.00 hrs lab  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU  
This course will give students background in the history and terminology of computer crimes. The investigation of computer crimes and the forensic processing of seized computer data while safeguarding the constitutional rights of individuals will be examined. (GR)

**AJ-116**  
Criminal Forensics  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course covers training of crime laboratory technicians in photography, scientific analysis, identification and comparison of physical evidence. Emphasis is placed on techniques and tests involved in cases of alcohol and drug intoxication and identification, blood types, fingerprints, ballistics, explosives, ultraviolet techniques, tool marks, and questioned documents. (GR)

**AJ-117**  
Police and Society  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course involves an in-depth exploration of roles of AJ practitioners and their agencies. Through interaction and study, Administration of Justice students will become aware of interrelationships and role expectations among various agencies and the public. Emphasis is placed on the professional image of the Administration of Justice system and development of positive relationships between members of the system and the public. (GR)

**AJ-118**  
Criminology  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course studies human behavior and the reasons and motivations why people commit crimes. It will also examine the nature and extent of crimes as well as causes and prevention of criminality. (GR)

**AJ-119**  
Murder in America  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: PSY-104  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course surveys the psychological and criminological aspects of murder in America, including serial killers, mass murderers, and terrorism. (GR)
AJ-120  Report Writing for Law Enforcement and the Administration of Justice  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course will provide pre-service students with an introduction to the field of report writing for law enforcement and the Administration of Justice system. (GR)

AJ-121  Constitutional Law and the United States  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: PS-106  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course examines the development of judicial review and the evolving role of the U.S. Supreme Court through analysis of landmark decisions of the Court. In particular, this course will focus on a theoretical discussion exploring the plurality of methods of constitutional interpretation used by justices in the past and present. (GC)

AJ-123  Terrorism  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course examines basic information about the structure and nature of domestic and international terrorism and the roles of state and local law enforcement in national defense. (GR)

AJ-131  Juvenile Justice  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course covers causes and forms of juvenile delinquency, the handling of juvenile offenders and victims, the prevention and repression of juvenile delinquency, the diagnosis and referral of juvenile offenders, the organization of community resources, and juvenile law and juvenile court procedures. (GR)

AJ-132  Civil Law  
36.00 hrs lecture  
Units: 2.00  
Advisory: Eligible for ENGL-101A  
This course covers the essentials of non-criminal law as it relates to contracts, personal and property rights, torts, marriage and family relations, and the civil action. This course also covers obtaining and enforcing emergency protective restraining orders. (GR)

AJ-135  Drug Enforcement  
36.00 hrs lecture  
Units: 2.00  
Advisory: Eligible for ENGL-101A  
This course covers the identification of narcotic and dangerous drugs, the users of drugs and their supply, the law as an agency of drug control, investigation and processing of drug violations, and social solutions to the drug problems. (GR)

AJ-140  POST PC 832 Laws of Arrest  
40.00 hrs lecture  
Units: 2.00  
This course is POST certified as 40 hours PC 832 Laws of Arrest for code enforcement vocations. This course covers professionalism for code enforcement officers, basic legal concepts, the laws of evidence and investigative techniques, and unarmed defense and handcuffing techniques. The course is principally directed at individuals who deal with members of the general public in their regular occupation and who can be expected to enforce code violations by issuing citations, if necessary. Repeatable = 2 times. (CR)

AJ-141  Post PC 832 Basic Firearms Qualification  
10.00 hrs lecture, 14.00 hrs lab  
Units: 1.00  
Prerequisite: Students must pass a background fingerprint check through the California Department of Justice at their own expense. The clearance letter must be provided to the Coordinator before entrance to the firing range. This requirement is California State Law.  
This course is the basic POST (Police Officer Standards and Training) certified 24-hour firearms training with qualification certificate upon completion. Successful completion of this course will allow the student to enter any enforcement type vocation, for instance, code inspectors, such as park rangers, building inspectors, animal control officers, community service officers, probation officers, security officers, or firefighters anywhere in the State of California. Repeatable = 3 times. (CR)

AJ-144  Leadership Skills Development  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
This course is designed to teach skills needed to create future leaders and supervisors for the public safety sector. Emphasis is not to teach students about supervision, but about leadership, and the differences between the two. (GR)

AJ-195A1  Work Experience Education – Vocational  
75.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

AJ-195A2  Work Experience Education – Vocational  
150.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

AJ-195A3  Work Experience Education – Vocational  
225.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

AJ-195A4  Work Experience Education – Vocational  
300.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)
AIR FORCE
Division: Fine Arts, Business, and Communication Studies

AF-101A Foundations of the U.S. Air Force
22.50 hrs lecture
Units: 1.00
Accepted For Credit: CSU
Today’s Air Force officer and the Air Force as a whole. (GR)

AF-101B Foundations of the U.S. Air Force
18.00 hrs lecture, 18.00 hrs lab
Units: 1.00
Accepted For Credit: CSU
Today’s Air Force officer and the Air Force as a whole. (GR)

AF-102A The Evolution of the U.S. Air Force
22.50 hrs lecture
Units: 1.00
Accepted For Credit: CSU
Introduction to ethics, values, leadership and leadership problems, and communication skills. (GR)

AF-102B Evolution of the U.S. Air Force
Air and Space Power
36.00 hrs lecture
Units: 2.00
Accepted For Credit: CSU
Introduction to ethics, values, leadership and leadership problems, and communication skills. (GR)

ALLIED HEALTH
Division: Health Sciences and Environmental Studies

AH-110 Medical Terminology
72.00 hrs lecture
Units: 4.00
Advisory: Eligible for ESL-184RW; ENGL-162; SPCH/ESL-150 or SPCH/ESL-151
Accepted For Credit: CSU
This course is an introduction to medication terminology as used in the health professions. It provides opportunities for practical application of medical terminology and further development of skill in analyzing components of medical terms and building a medical vocabulary applicable to specialties of medicine. Course content includes anatomical and physiological terminology; basic structure, prefixes, suffixes; combining forms; abbreviations, clinical procedures, laboratory and diagnostic tests related to each body system. (GR)

AH-114 Laboratory and Diagnostic Tests
18.00 hrs lecture
Units: 1.00
This course is designed for health science students and RN practitioners. Students will learn the purpose of various lab and diagnostic tests. Using clinical case studies, test results will be presented and analyzed. Not applicable to associate degree. Repeatable = 1 time (CR)

AH-117A Basic Phlebotomy Training
36.00 hrs lecture
Units: 2.00
Prerequisite: AH-110
This course meets the California content standards for basic phlebotomy training. It is the first course in the four course series leading to the Phlebotomy Certificate of Accomplishment and eligibility to sit for the state certification exam as a Phlebotomy Technician I. Not applicable to associate degree. Repeatable = 1 time (GR)

AH-117B Phlebotomy Skills Lab
27.00 hrs lab
Units: 0.50
Prerequisite: AH-117A; must have been taken within one year
This course is the second course of the four course series required for the Phlebotomy Certificate of Accomplishment. In this course students demonstrate what has been learned in the previous phlebotomy course. In a laboratory setting, under the supervision of the phlebotomist instructor, the student will demonstrate safe blood withdrawal techniques for vacuum system, butterfly needle, syringe system, and capillary puncture. The students will collect samples from each other and demonstrate safe transport of specimens. Skill mastery will be assessed through a final practice exam that must be successfully completed to progress to AH-117D, Phlebotomy Externship. Not applicable to associate degree. Repeatable = 1 time (GR)

AH-117C Advanced Phlebotomy Training
27.00 hrs lecture
Units: 1.50
Prerequisite: AH-117A and AH-117B; both must have been taken within one year
This is the third course in the four course series that meets the California content standards for eligibility to sit for the Phlebotomy Technician I certification exam. All four courses are required to earn the Ohlone College Phlebotomy Certificate of Accomplishment. This course builds upon the content and principles taught in AH-117A, Basic Phlebotomy Training. This course addresses each standard as outlined in the California standards and includes preparation for state certification. Not applicable to associate degree. Repeatable = 1 time (GR)

AH-117D Phlebotomy Externship
108.00 hrs lab
Units: 2.00
Prerequisite: AH-117C; must have been taken within one year
This is the fourth of four courses required to earn the Phlebotomy Certificate of Accomplishment. This is a clinical course in which students are assigned to experienced phlebotomists in clinical settings to practice blood collection, patient interaction, specimen processing, and laboratory function in health care. Students are mentored as they master the necessary technical skills. The content meets the standards as set forth by California law and includes preparation for state certification. Not applicable to associate degree. Repeatable = 1 time (GR)

AH-118 Advanced Phlebotomy for Practitioners
27.00 hrs lecture
Units: 1.50
Advisory: Phlebotomy work experience within the past five years as required by California law
This course is open to practicing phlebotomists who by law are eligible to sit for the Phlebotomy Technician I certification exam upon successfully completing this course. The content meets the standards as set forth by California law and includes advanced techniques in blood collection. Not applicable to associate degree. Repeatable = 1 time (GR)
**EKG Interpretation**

18.00 hrs lecture  
Units: 1.00  
Students are introduced to waveform identification, measurements, determination of rhythms, determination of heart rates, and various EKG rhythms and dysrhythmias. This course will also review cardiac anatomy and physiology in relation to various rhythms. Students will practice interpreting EKG rhythms. A brief review of anatomy and physiology is included. Repeatable = 1 time (CR)

**Acupressure Connection I**

18.00 hrs lecture  
Units: 1.00  
Cross-referenced Course: HLTH-130  
This course presents the fundamental concepts of acupressure. Students give acupressure treatments to self and others to relieve pain and promote relaxation. Additional holistic health practices are addressed including therapeutic touch, relaxation techniques, meditation, exercise, and nutrition. This course is open to anyone who is interested in living a healthier lifestyle and assisting others to do the same. Registered Nurses and Licensed Vocational Nurses will receive sixteen continuing education hours upon successful course completion. (CR)

**Applied Clinical Pharmacology**

36.00 hrs lecture  
Units: 2.00  
Accepted For Credit: CSU  
This course provides the respiratory therapy and nursing student or practitioner with a working knowledge of drug therapy in current use with acutely ill clients. (GC)

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**American Sign Language**

Division: Deaf Studies

**Principles of American Sign Language I**

90.00 hrs lecture, 18.00 hrs lab  
Units: 5.00  
Accepted For Credit: CSU & UC  
This course covers the beginning fundamental principles of American Sign Language and introduces basic information about the Deaf community and Deaf culture. This course is required for students majoring in American Sign Language and Deaf Studies and is a prerequisite for students wishing to enter the Interpreter Preparation Program. Students are expected to attend outside events at their own expense. (GR)

**Principles of American Sign Language II**

54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU & UC  
This course covers the fundamental principles of Level II American Sign Language and introduces more advanced information about the Deaf community and Deaf culture. This course is recommended for students majoring in American Sign Language/Deaf Studies and students wishing to enter the Interpreter Preparation Program. Students are expected to attend outside events at their own expense. (GR)

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**Did you know??**

Ohlone was the first smoke-free college in the Bay Area and has set a trend for other colleges.
ASL-103A Principles of American Sign Language III
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ASL-102A or ASL-102B
Accepted For Credit: CSU & UC
This course covers the fundamental principles of Level III of American Sign Language for students who have completed ASL-102A and is a further study of the Deaf community and Deaf culture. The course is required for students majoring in American Sign Language and Deaf Studies and students wishing to enter the Interpreter Preparation Program. Students are expected to attend outside events at their own expense. (GR)

ASL-103B Principles of American Sign Language III
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ASL-103A
Accepted For Credit: CSU & UC
This course covers the fundamental principles of Level III of American Sign Language for students who have completed ASL-102A, and is a further study of the Deaf community and Deaf culture. It is required for students majoring in American Sign Language/Deaf Studies and students wishing to enter the Interpreter Preparation Program. Students are expected to attend outside events at their own expense. (GR)

ASL-104A Principles of American Sign Language IV
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ASL-103A or ASL-103B
Accepted For Credit: CSU & UC
This course covers the fundamental principles of Level IV of American Sign Language and continues information about the Deaf community and Deaf culture. This course is required for students who have completed ASL-103A and who desire further study and review before taking ASL-104A. Students are expected to attend outside events at their own expense. (GR)

ASL-104B Principles of American Sign Language IV
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: ASL-104A
Accepted For Credit: CSU & UC
This course is an expanded and enhanced Level IV study of the fundamental principles of American Sign Language and is a further study of the Deaf community and Deaf culture. This course is recommended for students who have completed ASL-103A or ASL-103B. Students are expected to attend outside events at their own expense. (GR)

ASL-140 Deaf Education
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course has been designed to provide the student with a general orientation to Deaf/deaf education. The course provides an overview of the historical, philosophical, and social aspects of Deaf education. The course analyzes the impact of Deaf education on hearing families. In addition, it provides an orientation to problems, issues, research, legislation and current trends in the field of education of the Deaf. Repeatable = 1 time (GR)

ASL-142 Deaf Culture
54.00 hrs lecture
Units: 3.00
Prerequisite: Completion of, or concurrent enrollment in, ASL-101A or ASL-101B
Advisory: ENGL-151B
Accepted For Credit: CSU & UC
This course introduces American Deaf Culture with historical and cultural overview of the American Deaf community and its language, American Sign Language, ASL. Fundamental sociological and anthropological theories will be discussed. Students will be given an opportunity to study and understand minority group dynamics, attitudes and behavior characteristics of the oppressed and oppressor people and the liberation movements. Analysis of the relationship ASL to the history of American Deaf community will be conducted. (GR)

ASL-145 Deaf History
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-101A or ASL-101B
Accepted For Credit: CSU & UC
This is an in-depth study of noted Deaf persons, Deaf contributions to education and job markets, Deaf heritage, international Deaf history, history of California School of the Deaf-Fremont, and history of Bay Area Deaf organizations. (GR)

ASL-150 Linguistics of ASL
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-103B and ENGL-151B
Accepted For Credit: CSU & UC
This course is an in-depth study of the language of American Deaf people including grammar, morphology, phonology, semantics, and discourse of ASL. Taught in ASL only. (GR)

ASL-152 Advanced Fingerspelling
18.00 hrs lecture
Units: 1.00
Prerequisite: ASL-102A or ASL-102B
This course provides concentrated instruction in the receptive and expressive practice of advanced fingerspelling at increasing levels of complexity. It is recommended for advanced students majoring in American Sign Language and Deaf Studies or who are in the Interpreter Preparation Program. Repeatable = 3 times (GC)

ASL-154 Advanced American Sign Language Vocabulary
36.00 hrs lecture
Units: 2.00
Prerequisite: ASL-102A or ASL-102B
This course is designed to provide students with receptive and expressive knowledge of over 5,000 signs and commonly used phrases. Regional variations of signs will be studied. Conceptual accuracy is emphasized. Students will be able to correctly sign English into ASL and be able to translate ASL into English. This course is recommended for advanced students majoring in American Sign Language, Deaf Studies Program, and/or Interpreter Preparation. Repeatable = 3 times (GC)
ASL-155  ASL Literature (Folklore)
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-103A or ASL-103B
This course is an introduction to the discussion and analysis of
ASL literature. Two ASL stories will be studied in depth and
analyzed from a variety of perspectives. Taught in ASL only.
(Gr)

ASL-156  Advanced Reception of ASL
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-102A or ASL-102B
This course is designed to strengthen the receptive skills of
students interested in ASL by analyzing stories, jokes, and
experiences of a large variety of Deaf signers. This course is
recommended for advanced students in the American Sign
Language and Deaf Studies program or in the Interpreter
Preparation programs. Repeatable = 3 times (GC)

ASL-157  ASL Storytelling
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-103B
This course includes various levels and situations from simple
to complex ASL stories. Expressive storytelling will incorporate
ASL principles, sign order, facial expressions, body expressions,
and pantomime. Receptive storytelling will involve critiquing
and analyzing given stories. Taught in ASL only. (GR)

ASL-158  Classifiers in ASL
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-102A or ASL-102B
In this course, students will study the classifier system of ASL.
Taught in ASL only. Repeatable = 1 time (GC)

ASL-160  American Sign Language Field Work
54.00 hrs lab
Units: 1.00
Prerequisite: ASL-102A or ASL-102B
This course offers direct experience signing in formal and/or
informal conversational settings or projects involving
knowledge of ASL and deafness. Repeatable = 3 times (GR)

ASL-161  American Sign Language Field Work
108.00 hrs lab
Units: 2.00
Prerequisite: ASL-101A
This course offers direct experience signing in formal and/or
informal conversational settings or projects involving
knowledge of ASL and deafness. Repeatable = 3 times (GR)

ASL-181A  Conversational ASL I
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course is designed to provide basic conversational skills in
the language used by most Deaf people in the United States.
Emphasis will be placed on basic American Sign Language
structure. Students are expected to attend outside events at
their own expense. Repeatable = 1 time (GC)

ASL-181B  Conversational ASL II
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-181A
Accepted For Credit: CSU
This course is a continuation of the study of ASL as used in a
conversational mode. It is designed to provide intermediate
conversational skill in the use of ASL. Students are expected to
attend outside events at their own expense. Repeatable = 1
time (GC)

ASL-183  ASL Skill Building
54.00 hrs lab
Units: 1.00
Prerequisite: ASL-101A
This is a course for students wishing to become more
proficient in using ASL and to further develop their vocabulary,
ASL grammar, and fingerspelling skills. Taught in ASL only.
Repeatable = 3 times (GC)

ASL-190A  Workshop in Beginning ASL I
54.00 hrs lecture
Units: 3.00
This course is a Beginning Level I basic workshop for students
covering selected topics in the area of American Sign Language
(ASL), Deaf Education, and Deaf Culture. The theme and
content for each workshop varies and is determined by
American Sign Language/Deaf Studies instructors and focused
to meet the needs of the workshop participants. Repeatable =
3 times (CR)

ASL-190B  Workshop in Beginning ASL II
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-190A
This course is a Beginning Level II workshop for students
covering selected topics in the area of American Sign Language
(ASL), Deaf Education, and Deaf Culture. The theme and
content for each workshop varies and is determined by
American Sign Language/Deaf Studies instructors. Repeatable =
3 times (CR)

ASL-190C  Workshop in Beginning ASL III
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-190B
This course is an Advanced Beginning Level III workshop for
students covering selected topics in the area of American Sign
Language (ASL), Deaf Education, and Deaf Culture. The theme
and content of each workshop varies and is determined by
American Sign Language/Deaf Studies instructors and focused
to meet the needs of the workshop participants. Repeatable =
to a maximum of 9 units for ASL-190A-C (CR)

ASL-191A  Workshop in Intermediate ASL I
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-190C
This course is an Intermediate Level ASL workshop for students
covering selected topics in the area of American Sign Language
(ASL), Deaf Education, and Deaf Culture. The theme and
content of each workshop varies and is determined by
American Sign Language/Deaf Studies instructors. Repeatable =
3 times (CR)

ASL-191B  Workshop in Intermediate ASL II
54.00 hrs lecture
Units: 3.00
Prerequisite: ASL-191A
This course is a Level II Intermediate workshop for students
covering selected topics in the area of American Sign Language
(ASL), Deaf Education, and Deaf Culture. The theme and
content of each workshop varies and is determined by
American Sign Language/Deaf Studies instructors. Repeatable =
3 times (CR)
ASL-191C  **Workshop in Intermediate ASL III**  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ASL-191B  
This course is a Level III Intermediate workshop for students covering selected topics in the area of ASL and Deaf Studies. The theme and content of each workshop varies and is determined by American Sign Language/Deaf Studies instructors. Repeatable = to a maximum of 9 units for ASL-191A-C (CR)

ANTH-101  **Physical Anthropology**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course is a study of human biology with an emphasis on human evolution and the interaction between biology and culture. Major topics of discussion will be genetics, human variation, primate studies, and the prehistorical fossil record. (GC)

ANTH-102  **Cultural Anthropology**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course deals with the study of human society with reference to the development and change of culture. An emphasis will be placed on the comparative review of language, marriage and family, belief systems, wealth, power, and political organizations. (GC)

ANTH-103  **Introduction to Archaeology and Prehistory**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course introduces the subject of archaeology through the study of concepts, theories, and methods employed by archaeologists to reconstruct past life ways. Topics include the nature of archaeological research, field methods, data acquisition, analysis, and interpretation, cultural resource management, and an examination of cultural adaptations and change. (GC)

ANTH-104  **Survey of North American Indian Cultures**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course will focus on the prehistoric and historic distribution of Native American populations and their respective cultures. Topics to be covered include prehistoric and ethnographic record of North American Indian cultures. This will include social organization, linguistics, religion, post contact history, and contemporary issues of Native Americans. (GC)

ANTH-105  **Field Archaeology**  
18.00 hrs lecture, 108.00 hrs lab  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course deals with the methods of scientific excavation implementing the techniques of a field archeologist. Emphasis will be on the scientific method as it relates to excavation, classifying, cataloging, and preservation of past human cultures under supervised field and laboratory conditions. Repeatable = 3 times (GC)

ANTH-106  **Magic, Witchcraft, and Religion**  
54.00 hrs lecture  
Units: 3.00  
Advisory: ANTH-102; eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course involves the study of belief systems of cultures around the world, examining religion and spirituality from an anthropological perspective. Students will analyze the functions of religious beliefs and the varied expressions of religion through ritual behaviors, use of magic, cures, hallucinogenic drugs and the importance of the mind-body connection. (GC)

ANTH-108  **Introduction to Forensic Anthropology**  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: AJ-108  
Advisory: ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course introduces the field of forensic anthropology through a study of the history and methods of forensic anthropology and the role it plays in the medico-legal system. Topics include the human skeletal system, forensic archaeology, recovery and techniques for analyzing human skeletal remains. (GC)

**ARABIC**

Division: Humanities, Social Sciences, and Mathematics

ARBC-101A  **Elementary Arabic**  
90.00 hrs lecture, 18.00 hrs lab  
Units: 5.00  
Accepted For Credit: CSU & UC  
This course is an introduction to the speaking, reading and writing of Arabic including fundamentals of grammar and Arabic culture. (GR)

ARBC-101B  **Elementary Arabic**  
90.00 hrs lecture, 18.00 hrs lab  
Units: 5.00  
Prerequisite: ARBC-101A or two years of high school Arabic  
Accepted For Credit: CSU & UC  
This course is a continuation to the speaking, reading and writing of Arabic and includes fundamentals of grammar and Arabic culture. (GR)
ART

Division: Fine Arts, Business, and Communication Studies

ART-100  Survey of the Arts
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: IS-100, MUS-100, TD-100
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
In this course theatre, art, and music are explored through discussion, historical review, and contemporary issues. The purpose of this course is to increase students' understanding and enjoyment of the arts. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

ART-101  Art: An Introduction
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course is a survey of the visual arts: painting, sculpture, architecture, and film. The student will be introduced to the various functions of art in our society. The desired outcome is a more critical observer. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

ART-103A  Survey of World Art History – Prehistoric Through 1300 C.E.
72.00 hrs lecture
Units: 4.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course is a survey of the history of sculpture, architecture, and visual arts throughout the world prior to 1300 CE. The civilizations, regions, and cultures studied are Mesopotamia, Egypt, Ancient Greece and Rome, Early Christian, Islam, African, Pre-Columbian, Asia and the art of the Americas. (GC)

ART-103B  Survey of World Art History – 14th Century Through 20th Century
72.00 hrs lecture
Units: 4.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course is a survey of the history of sculpture, architecture, and visual arts throughout the world after 1300 CE. The civilizations, regions, and cultures studied are Europe, Africa, Asia and the Americas. (GC)

ART-104A  2D Design
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & UC
This lecture/studio class will introduce the beginning student to the techniques and concepts related to the organization of two-dimensional imagery. Studio work will include pen and ink, collage, painting, drawing, and bookmaking. Repeatable = 3 times (GC)

ART-104B  3D Design
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Advisory: ART-104A
Accepted For Credit: CSU & UC
This lecture/studio class is a continuation of ART-104A. A major emphasis will be on the principles of three-dimensional form. Repeatable = 3 times (GC)

ART-104C  Color
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & UC
This lecture/studio class will introduce the beginning student to various theories of color, hands-on experience in mixing colors, and practical observation in color relationships and effects. The quality of color will be explored through hue, value, and saturation. Repeatable = 3 times (GC)

ART-105A  Glass Art and Design
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
This course is an introduction to fundamentals of art and design using glass as a medium. Studies include line, form, shape, color, and spatial relationships. The course covers glass cutting, lamination, copper foil stained glass, casting and fusing techniques. Repeatable = 3 times (GC)

ART-105B  Advanced Glass Fabrication
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Prerequisite: ART-105A
Accepted For Credit: CSU
This course emphasizes further explorations in glass, including moldmaking, casting, fusing, slumping, and sandblasting. Repeatable = 3 times (GC)

ART-105C  3D Glass
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Prerequisite: ART-105A and ART-105B
Accepted For Credit: CSU
This course emphasizes three-dimensional glass, using advanced techniques in kiln forming, casting, abrasive blasting, lamination, and coldworking. Repeatable = 3 times (GC)

ART-106A  Descriptive Drawing
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & UC
This is a basic drawing course designed to teach fundamental drawing skills and techniques. Direct observation, composition, and methods of expressing subject matter – as well as the use of charcoal, pencil, ink, and pastel – will be emphasized. Repeatable = 3 times (GC)

ART-106B  Intermediate Descriptive Drawing
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Prerequisite: ART-106A
Accepted For Credit: CSU & UC
This course involves a continued exploration of drawing concepts focusing on creative expression and composition. The course emphasizes developing a sustainable studio practice using a variety of methods and materials. Repeatable = 3 times (GC)

ART-107A  Life Drawing
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Prerequisite: ART-106A
Accepted For Credit: CSU & UC
This course involves drawing the human figure from both an anatomical and intuitively observational method. Media used include charcoal, graphite, ink, water color, and oil wash. Repeatable = 3 times (GC)
ART-107B  Life Drawing
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Prerequisite: ART-107A
Accepted For Credit: CSU & UC
This course is a continuation of the work and methodology of
ART-107A, but with an emphasis on expressive interpretation in
drawing the human figure and the use of color. Repeatable = 3 times (GC)

ART-108  Perspective Drawing
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Advisory: ART-106A
Accepted For Credit: CSU & UC
This is a practical course in the techniques and principles of
drawing in one and two point freehand and constructed
perspective with an emphasis on drawing interiors and
furniture. Repeatable = 3 times (GC)

ART-109A  Beginning Graphic Design I
(Letter Forms and Typography)
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: GA-109A
Advisory: ART-104A
Accepted For Credit: CSU
This course is an introduction to Graphic Design. It will cover
the fundamentals of letter form design with traditional and
contemporary alphabets. Studio practice will emphasize the
relationships between image and message. Repeatable = 3 times (GC)

ART-109B  Beginning Graphic Design II
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: GA-109B
Prerequisite: ART-109A or GA-109A
Accepted For Credit: CSU
This course is an introduction to the pictorial image and written
word as basic components in a format for communications.
The studio practice develops student's ability to formulate and
communicate a concept into graphic form for both
presentation and production. Repeatable = 3 times (GC)

ART-110A  Advanced Graphic Design I
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: GA-110A
Prerequisite: GA-109B or ART-109B
Accepted For Credit: CSU
This is an advanced class. The emphasis is on students' problem-solving ability. It includes comprehensive projects in
applied graphics and three-dimensional design. There is
instruction in techniques for package design, product
visualization, and execution of 3-D design prototypes for
presentation and photography. Repeatable = 3 times (GC)

ART-110B  Advanced Graphic Design II
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: GA-110B
Prerequisite: ART-110A or GA-110A
Accepted For Credit: CSU
This course gives advanced attention to design solution and
presentation. The class deals with the development of a single
all-inclusive graphic design project. The emphasis is on
effective client relationship from concept development
through assignment completion. Repeatable = 3 times (GC)

ART-111A  Painting – Color and Composition
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Advisory: ART-104A or ART-106A
Accepted For Credit: CSU & UC
This is an introductory course in studio painting practices
designed to involve the student in basic studio techniques and
experiences with regard to color, composition, and subject
matter. Oil paint will be the primary media. Introduction to
other painting media will be included in the instruction.
Repeatable = 3 times (GC)

ART-111B  Painting
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Prerequisite: ART-111A
Accepted For Credit: CSU & UC
This class continues the approaches studied in ART-111A with
an emphasis on form and content of subject matter.
Techniques in painting with a student choice of media will be
further explored. Repeatable = 3 times (GC)

ART-112  Watercolor
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Advisory: ART-106A
Accepted For Credit: CSU & UC
This course concentrates on water-based media including
transparent watercolor, dyes, gouache, and tempera. Brush
techniques and investigation of various papers will be
included. Repeatable = 3 times (GC)

ART-116A  Basic Sculpture
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Advisory: ART-104A or ART-106A
Accepted For Credit: CSU & UC
This is an introductory course designed to familiarize the
student with contemporary forms of sculpture. Studio practice
with process and material will be emphasized. Repeatable = 3
times (GC)
ART-116B  Advanced Sculpture  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-116A  
Accepted For Credit: CSU & UC  
This course is a continuation of ART 116A and will further explore the relationship between sculptural form and personal expression. Studio practice in advanced processes will be emphasized. Repeatable = 3 times (GC)

ART-117A  Museum and Gallery Techniques (Exhibition Production)  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
This course is an introduction to the operation and display of visual art within a gallery and museum space. The course involves a broad range of activities covering the care and handling, responsibility, and security of art shown in the College’s Art Gallery. Repeatable = 3 times (GC)

ART-117B  Museum and Gallery Techniques (Promotional Graphics)  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
This course continues the production and display techniques experienced in ART-117A. The emphasis will be to give students a working understanding of the methods of preparing materials for promoting and disseminating information important to the exhibition of art in the College’s gallery. Repeatable = 3 times (GC)

ART-119A  3D Studio Lab  
54.00 hrs lab  
Units: 1.00  
Corequisite: One of the following: ART-105A,B,C; ART-116A,B,C; ART-120A,B; ART-121A,B; ART-122A,B; ART-124; ART-125A,B; ART-126A,B  
Accepted For Credit: CSU  
This class is a lab component of all three-dimensional studio classes in the Art Department. Students will produce portfolio projects in clay, glass, or other sculptural materials. Repeatable = 3 times (CR)

ART-120A  Ceramic Studio Development and Maintenance I  
54.00 hrs lab  
Units: 1.00  
Prerequisite: ART-121B  
Accepted For Credit: CSU  
This course is an introduction to the development and maintenance of a ceramic studio. Students will gain general and practical working experience in the acquisition, installation, and use of all necessary studio equipment and supplies by helping to maintain the Ohlone ceramic studio. The machinery includes kilns, wheels, pug mill, slab roller, extruder, slip mixer, airbrush, spray booth, compressor, glaze materials, and ceramic library. Repeatable = 3 times (GC)

ART-120B  Ceramic Studio Development and Maintenance II  
54.00 hrs lab  
Units: 1.00  
Prerequisite: ART-121B  
Accepted For Credit: CSU  
This course is a continuation of ART-120A. Students will gain general and practical working experience in the acquisition, installation, and use of all necessary studio equipment and supplies by helping to maintain the Ohlone ceramic studio. In addition, the students will train incoming students on the appropriate treatment and use of equipment. Repeatable = 3 times (GC)

ART-121A  Introductory Ceramics I  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU & UC  
This course is an introduction to the fundamental techniques of wheel-thrown and hand-construction clay forms. This is a survey of clay and glaze materials and their ceramic applications. It includes firing of high temperature and low temperature stoneware and porcelain clay forms, including Raku and burningish. Repeatable = 3 times (GC)

ART-121B  Introductory Ceramics II  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-121A  
Accepted For Credit: CSU & UC  
This class is a continuation of ART-121A. The emphasis is on wheel throwing, advanced handbuilding, glaze application, and understanding the loading and firing of bisque kilns. Repeatable = 3 times (GC)

ART-122A  Ceramic Throwing I  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-121B  
Accepted For Credit: CSU & UC  
The course emphasis is on the designing, throwing, and glazing of more complex and difficult forms, including lidded containers, closed shapes, thin-necked bottles, and teapot sets. Repeatable = 3 times (GC)

ART-122B  Ceramic Throwing II  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-121B  
Accepted For Credit: CSU & UC  
This course is a continuation of ART-122A. The emphasis is on designing, throwing, glazing, and firing advanced thrown and hand-built forms. This involves working on some ceramic projects for weeks at a time. There will be projects involving a combination of thrown and hand-built forms. This course will also emphasize appropriate glazes for particular forms. Repeatable = 3 times (GC)

ART-123  Ceramic Decorating  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-121B  
Accepted For Credit: CSU & UC  
This course emphasizes all aspects of ceramic decoration including: texture, carving, flattening, applied ornament, colored clays, engobes, brush making, resists, stencils, slip trailing, combing, marbling, commercial underglazes, raw oxides, and overglazes. Repeatable = 3 times (GC)
ART-124  Advanced Ceramic Decorating  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-121B  
Accepted For Credit: CSU & UC  

This course introduces color and design in photography with emphasis on creative expression through 35mm color. The course introduces color negative and reversal films. Techniques covered in the lab include digital image capture through scanning and computer adjustments to offer color correction, image manipulation, and capability to produce multi-media effects. A 35mm camera is required, as well as the purchase of film and processing. (GC)

ART-131  History of Photography  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU & UC  

This course is a survey of photography as an historical and contemporary form of art and communication. The student will develop appreciation for, and comprehension of, the issues, practices, and theories involved in visual communication as well as gain insights into the role of photography with regard to social, cultural, and political shifts and events from its inception in the early 19th century to the present day. (GC)

ART-133A  Black and White Photography  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU & UC  

This course covers the fundamental processes of photography including camera mechanics, film exposure, optics, composition and darkroom skills required to produce quality continuous tone black and white prints. Course will include an overview of historic and contemporary photography. A camera with manual controls is required. Repeatable = 3 times (GC)

ART-133B  Intermediate Black and White Photography  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-133A  
Accepted For Credit: CSU  

This is a darkroom course in black and white photography. Students refine their use of light sensitive materials and gain hands-on experience with alternative photographic processes. This course affords the opportunity for students to emphasize creativity and artistic style. Repeatable = 3 times (GC)

ART-133C  Advanced Black and White Photography  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-133B  
Accepted For Credit: CSU & UC  

This is a darkroom course in black and white photography. Students learn about camera exposure as it relates to print controls. The course spends time on previsualization techniques and affords the opportunity for students to emphasize creativity and artistic style. Students work independently on photography projects of their own design. Repeatable = 3 times (GC)

ART-138A  Beginning Photoshop  
2700 hrs lecture, 81.00 hrs lab  
Units: 3.00  
Cross-referenced Course: GA-138A  
Accepted For Credit: CSU & UC  

This course is for photographers with limited experience or new to Adobe Photoshop. Students learn how to work with a digital “darkroom” using images supplied by the instructor for this purpose. Topics included are image file management and organization, file formats, resolution, basic image editing, selective image editing, scanning, preparing images for web-based application, how to purchase a digital camera, and more. A digital camera is not required. Repeatable = 3 times (GC)

ART-138B  Intermediate Photoshop  
2700 hrs lecture, 81.00 hrs lab  
Units: 3.00  
Cross-referenced Course: GA-138B  
Prerequisite: ART/GA-138A  
Accepted For Credit: CSU  

This course is for photographers wishing to increase their working knowledge of Adobe Photoshop. Students work with a digital “darkroom” using original images as well as images supplied by the instructor. Topics included are working with layers and masks, opacity and blend modes, transforming, working with text, camera raw, actions and smart filters, print and web-based workflow. A digital camera is not required. Repeatable = 3 times (GC)

ART-139A  Beginning Digital Photography  
18.00 hrs lecture, 108.00 hrs lab  
Units: 3.00  
Cross-referenced Course: GA-169A  
Accepted For Credit: CSU & UC  

This course explores the photographer’s creative process from several directions. Students will undertake photographic projects designed to provide engagement with a variety of subject matter and ways of photographing. Look at photographic work in online and local galleries and museums, consider current issues having to do with photographic technologies, discuss their photographs with other students in an effort to improve their creative processes. Technical instruction will include camera functions, resizing and saving digital files, and minor image modification. For intense technical instruction see ART-138A and ART-138B. Repeatable = 3 times (GC)

ART-139B  Intermediate Digital Photography  
18.00 hrs lecture, 108.00 hrs lab  
Units: 3.00  
Cross-referenced Course: GA-169B  
Prerequisite: ART-139A or GA-169A  
Accepted For Credit: CSU  

This course continues an exploration of the photographer’s creative process from several directions. Students will undertake photographic projects designed to provide engagement with a variety of subject matter and ways of photographing; complete an extended photographic project of their choosing and receive guidance from the instructor and students; look at photographic work in online and local galleries and museums; consider current issues around photographic technologies; discuss their photographs with other students in an effort to improve their creative processes. Students will formalize their individual projects as books or web-based workflow. Technical instruction will include camera functions, resizing and saving digital files, and minor image modification. For intense technical instruction see ART-138A and ART-138B. Students should consider completing ART-138A prior to enrolling in this course, but it is not a requirement. Repeatable = 3 times (GC)
ART-150A  Interior Design Concepts
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: ID-150A
Accepted For Credit: CSU
In this introductory course, students analyze interiors using basic design concepts, principles, and techniques used by professional interior designers, and case studies in problem solving with an emphasis on residential interiors are presented. (GC)

ART-150B  Interior Design
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-150B
Prerequisite: ART-150A or ID-150A
Accepted For Credit: CSU
This course is a continuation of ART-150A. Interior design theories and methodologies are explored in depth through case studies emphasizing the design of public space. Repeatable = 3 times (GC)

ART-151  Visualization and Presentation
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-151
Accepted For Credit: CSU
This course familiarizes students with current methods and materials used in the design industry to develop concepts and communicate ideas. Students will prepare projects for a design portfolio. Repeatable = 3 times (GC)

ART-153  History of Decorative Arts
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: ID-153
Accepted For Credit: CSU & UC
Students study furniture construction, styles, and periods in conjunction with the architecture and related decorative arts of each era from ancient times to the present. This course includes political, religious, and cultural histories which significantly influenced these arts. (GC)

ART-154  Contemporary Home Design
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-154
Accepted For Credit: CSU
Students study the architectural history of home design and learn practical applications of information relating to design, construction methods, and economic practices. (GC)

ART-155A  Architectural Drafting for Interior Design
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-155A
Advisory: Concurrent with ART/ID/GA-163
Accepted For Credit: CSU
This course will introduce basic drafting techniques as related to architectural working drawings for interior design. Construction materials and procedures will be discussed. Repeatable = 3 times (GC)

ART-155B  CAD for Interior Design
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-155B
Advisory: ART/ID/GA-155A
Accepted For Credit: CSU
This course focuses on the fundamentals of computer-aided drafting as related to interior design and architectural drawings. Understanding CAD concepts and using commands are emphasized. Drawing skills are learned and developed by applying these concepts to solve practical laboratory problems. Repeatable = 3 times (GC)

ART-156  Architectural Modelmaking for Interior Design
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-156
Accepted For Credit: CSU
Scale models will be developed in this class for presenting and studying architectural interior spaces. A wide range of materials and processes will be explored. Repeatable = 3 times (GC)

ART-157  Professional Practice for Interior Design
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: ID-157
This class introduces basic business practices for interior designers. It also includes an overview of career paths, business planning and organization, professional associations, marketing, sales, wholesale resource development, contractual obligations, and ethics. It is designed for people preparing to enter the field of interior design. (GC)
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-158</td>
<td>Textiles</td>
<td>Comprehensive course in the study of textiles related to interior design. Fiber and fabric construction and characteristics are examined; textile choices are evaluated and analyzed for safety, functionality, and aesthetics; and the impacts of textiles on interior environments are considered. Students gain an empirical understanding of the nature of textiles through hands-on projects in the laboratory component. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>ART-159A</td>
<td>Applied Design: Residential Lighting</td>
<td>Seminar presenting basic considerations necessary to plan, choose, and place lighting fixtures throughout a home to help define space, articulate atmosphere, direct attention, and facilitate activities. (GC)</td>
</tr>
<tr>
<td>ART-159B</td>
<td>Applied Design: Color for the Home</td>
<td>Seminar exploring various approaches that may be followed to arrive at color schemes that are satisfying, comfortable, and exciting. (GC)</td>
</tr>
<tr>
<td>ART-160A</td>
<td>Computer Graphics I</td>
<td>Introduction to microcomputers and to the creation of computer-generated graphics. This course examines the variety of software/hardware tools and techniques available for the production of computer-made imagery. The emphasis is on hard-copy production using printers, plotters, and other reproduction methods. This course also covers design principles, business graphics, and elementary programming principles. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>ART-160B</td>
<td>Computer Graphics II</td>
<td>Continuation of ART-160A. The emphasis in this course is on developing intermediate and advanced skills needed to operate a computer graphics work station. Students complete projects of their choice using more complex Paint and CAD software, printers, and plotters. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>ART-161A</td>
<td>Digital Graphics I</td>
<td>Overview of computer graphics on desktop computers for graphic designers, artists, typographers, and for business applications. This course will cover hardware and software including laser printers, ink jet printers, scanners, tablets, and bit-mapped and vector-based graphics programs. This course also covers design principles and business graphics. The course emphasis is on the creation of a portfolio of computer graphics drawings. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>ART-161B</td>
<td>Digital Graphics II</td>
<td>Continuation of ART-161A. The emphasis in this course is on developing intermediate and advanced skills needed to setup and operate a digital graphics work station and publish on the Web. Students complete projects of their choice using complex graphics software, scanners, tablets, and printers. The course emphasis is on the continued development of a portfolio of computer images. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>ART-163</td>
<td>Digital Arts Lab – Macintosh</td>
<td>Lab component for all courses taught on the Macintosh and on drafting equipment in these areas: Art, Graphic Arts/Computer Graphics, Photography, and Interior Design. Students will produce digital graphic and drafting projects for art related classes. Repeatable = 3 times (CR)</td>
</tr>
</tbody>
</table>

**ASTRONOMY**

Division: Science, Technology, and Engineering

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ASTR-101A</td>
<td>General Astronomy of the Solar System</td>
<td>Provides the student with an introduction to the history, principles, methods, and fundamentals of astronomy. (GR)</td>
</tr>
<tr>
<td>ASTR-101B</td>
<td>General Astronomy Beyond the Solar System</td>
<td>Introduction to the fundamental principles and the dynamics of the astronomy beyond the Solar System. (GR)</td>
</tr>
</tbody>
</table>
ATHL-100  Intercollegiate Experience  
10.80 hrs lab  
Units: 0.00  
Corequisite: ATHL-380  
Advisory: Medical check within the last year  
This course allows potential athletes to experience what it takes to be a part of an intercollegiate team. Not applicable to associate degree. Repeatable = 2 times (NG)

ATHL-101A2  Functional Sports Performance  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is for incoming student athletes to perform and develop their skills as they relate to their specific sport. This course will also be an opportunity for specific coaches to evaluate individual players and to better identify deficiencies prior to the start of the season. Repeatable = 2 times (GO)

ATHL-101A3  Functional Sports Performance  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is for incoming student athletes to perform and develop their skills as they relate to their specific sport. This course will also be an opportunity for specific coaches to evaluate individual players and to better identify deficiencies prior to the start of the season. Repeatable = 2 times (GC)

ATHL-110A2  Sport Specific Training  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is designed to improve neuromuscular conditioning and agility related to sport-specific movements. Course is designed for intercollegiate-level athletes. Repeatable = 2 times (GR)

ATHL-110A3  Sport Specific Training  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is designed to improve neuromuscular coordination and agility related to sport-specific movements. Course is designed for intercollegiate-level athletes. Repeatable = 2 times (GR)

ATHL-112A Advanced Strength Training  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical clearance within the last year  
Accepted For Credit: CSU & UC  
This activity class is designed to assist the student athlete with advanced strength training techniques for personal muscular development. Repeatable = 2 times (GC)

ATHL-112A3  Advanced Strength Training  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical clearance within the last year  
Accepted For Credit: CSU & UC  
This activity class is designed to assist the student athlete with advanced strength training techniques for personal muscular development. Repeatable = 2 times (GC)

ATHL-120A2  Cross Training for the Athlete  
36.00 hrs lab  
Units: 0.50  
Accepted For Credit: CSU & UC  
Advisory: Medical check within the last year  
This course allows for the athlete to continue their strength and conditioning requirement while exploring alternate methods of exercise. There will be opportunity to develop new strength training techniques, focus on specific systems of the body such as the cardiorespiratory system, and to achieve a sense of body readiness when it pertains to an upcoming sports season. Repeatable = 2 times (GR)

ATHL-120A3  Cross Training for the Athlete  
54.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU & UC  
Advisory: Medical check within the last year  
This course allows for the athlete to continue their strength and conditioning requirement while exploring alternate methods of exercise. There will be opportunity to develop new strength training techniques, focus on specific systems of the body such as the cardiorespiratory system, and to achieve a sense of body readiness when it pertains to an upcoming sports season. Repeatable = 2 times (GC)

ATHL-122A2  Progressive Weight Training  
36.00 hrs lab  
Units: 0.50  
Accepted For Credit: CSU & UC  
Advisory: Medical clearance within the last year  
Set in the Fitness Lab, this course includes the use of free weights, machine weights, and lifting platforms to develop and improve muscular strength and endurance. Repeatable = 2 times (GC)

ATHL-122A3  Progressive Weight Training  
54.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU & UC  
Advisory: Medical clearance within the last year  
Set in the Fitness Lab, this course includes the use of free weights, machine weights, and lifting platforms to develop and improve muscular strength and endurance. Repeatable = 2 times (GC)

ATHL-220  Women's Volleyball  
180.00 hrs lab  
Units: 3.00  
Prerequisite: Medical clearance within the last year  
Corequisite: ATHL-380  
Accepted For Credit: CSU & UC  
This course is designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)
ATHL -222  Women's Soccer
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

ATHL -223  Men's Soccer
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

ATHL -224  Women's Waterpolo
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

ATHL -225  Men's Waterpolo
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

ATHL -226  Women's Basketball
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

ATHL -227  Men's Basketball
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

ATHL -228  Women's Swimming
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

ATHL -229  Men's Swimming
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

ATHL -230  Women's Softball
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

ATHL -231  Men's Baseball
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

ATHL -232  Women's Tennis
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

ATHL -233  Men's Tennis
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is designed for students who desire to compete in intercollegiate athletics and who can perform the necessary physical skills. Repeatable = 3 times (GC)

ATHL -262  Coaching Volleyball
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is a study of fundamental offensive and defensive techniques and strategies as they apply to teaching and/or coaching volleyball. This course includes the principles of how to scout games, critique athletic skills, and plan a practice schedule. Repeatable = 2 times (GC)

ATHL -264  Coaching Soccer
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is a study of fundamental offensive and defensive techniques and strategies as they apply to teaching and/or coaching soccer. This course includes the principles of how to scout games, critique athletic skills, and plan a practice schedule. Repeatable = 2 times (GC)
ATHL-265  Coaching Basketball
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is designed for students who wish to learn fundamental offensive and defensive techniques and strategies in basketball as they apply to teaching and/or coaching. The course will also include the principles of scouting, critiquing athletic skills, and planning a practice schedule. Repeatable = 2 times (GC)

ATHL-266  Coaching Softball
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is a study of fundamental offensive and defensive techniques and strategies as they apply to teaching and/or coaching softball. This course includes the principles of how to scout games, critique athletic skills, and plan a practice schedule. Repeatable = 2 times (GC)

ATHL-267  Coaching Baseball
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is a study of fundamental offensive and defensive techniques and strategies as they apply to teaching and/or coaching baseball. This course includes the principles of how to scout games, critique athletic skills, and plan a practice schedule. Repeatable = 2 times (GC)

ATHL-268  Coaching Tennis
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Corequisite: ATHL-380
Accepted For Credit: CSU & UC
This course is a study of fundamental offensive and defensive techniques and strategies as they apply to teaching and/or coaching tennis. This course includes the principles of how to scout games, critique athletic skills, and planning a practice schedule. Repeatable = 2 times (GC)

ATHL-380  Intercollegiate Athletic Injury Rehabilitation
18.00 hrs lab
Units: 0.00
Corequisite: Must be an active member of an intercollegiate athletic team as evidenced by enrollment in ATHL-220–ATHL-233 or ATHL-262–ATHL-268
This course will provide individualized rehabilitation programs for intercollegiate athletic injuries. Exercises to increase joint range of motion, muscle strength, muscle endurance, agility, and speed will be utilized to assist Ohlone athletes in rehabilitation of their athletic injuries. Not applicable to associate degree. Repeatable = 3 times (NG)

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BIOL-101A  Principles of Biology – Molecular and Cellular
54.00 hrs lecture, 108.00 hrs lab
Units: 5.00
Prerequisite: CHEM-101A
Advisory: Eligible for ENGL-151B and ENGL-163; BIOL-130
Accepted For Credit: CSU & UC
This course is the first of a two-semester course that provides an introduction to biological principles for biology and health professions majors. Topics emphasized include biochemistry, cell structure and function, metabolism, cellular reproduction, Mendelian genetics, molecular genetics, genetics of prokaryotes and viruses, biotechnological techniques, and evolution. Students taking this course should plan to also take Biology 101B. (GR)

BIOL-101B  Principles of Biology – Organisms and Systems
54.00 hrs lecture, 108.00 hrs lab
Units: 5.00
Prerequisite: BIOL-101A
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is an introduction to biological principles for biology and health professions majors. Topics emphasized include evolution, systematics, prokaryote and eukaryote diversity (including a survey of the Kingdoms Protista, Fungi, Animalia, and Plantae), anatomy and physiology of animals, plant structure and function, and ecology. This course completes the lower-division core curriculum in biology for biology and pre-health professions majors. (GR)

BIOL-103A  Human Anatomy and Physiology
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: Completion within past three years of BIOL-130 and CHEM-109
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course will cover the cell biology, anatomy, histology, and physiology of the following body systems: integumentary, skeletal, muscles, nervous, endocrine, and reproductive systems. Key concepts covered will include homeostasis, structure/function relationships, the physiology of excitable membranes, and interactions of body systems. (GR)
**BIOL-103B**  Human Anatomy and Physiology
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: BIOL-103A
Accepted For Credit: CSU & UC
This course is the second semester of the one year anatomy and physiology sequence. It will cover the cardiovascular, lymphatic, immune, respiratory, renal and digestive systems of the human body. Laboratories include animal and cadaver dissection, histology and physiological recordings. (GR)

**BIOL-104**  Basic Human Anatomy and Physiology
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: BIOL-130 within past 3 years
Accepted For Credit: CSU & UC
This course surveys the structure and function of the major organ systems of the human body. Emphasis is on homeostasis and regulatory mechanisms. Cadaver demonstrations will be presented. (GR)

**BIOL-105**  Heredity, Evolution, and Society
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is an introduction to the principles of genetics and evolution for non-science majors. The mechanisms of heredity and evolution will be studied with an emphasis on the human aspect of both subjects. (GC)

**BIOL-106**  Microbiology
54.00 hrs lecture, 108.00 hrs lab
Units: 5.00
Prerequisite: BIOL-130 and CHEM-109
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course presents basic microbiology with an emphasis on the medical significance of microorganisms, methods to study and control microbes, and the principles of aseptic technique. (GR)

**BIOL-107**  Microbiology and Infectious Diseases
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is directed toward understanding the biology of microorganisms, their relationship to disease, their control, and the human defense system. (GR)

**BIOL-108**  Human Ecology
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: ENV-108
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
Human Ecology is an interdisciplinary, general education course that identifies problems created by man's modification of his environment, presents solutions to these problems, and offers appropriate alternatives. (GC)

**BIOL-109**  Biology of Sexual Reproduction
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course presents anatomy, physiology, and behavioral aspects of human sexual reproduction with emphasis on functional mechanisms. (GC)

**BIOL-114**  Introduction to Plant Biology
45.00 hrs lecture, 2700 hrs lab
Units: 3.00
Cross-referenced Course: BIOT-114
Accepted For Credit: CSU & UC
This course provides a basic introduction to plant Biology and careers related to plant biology. Topics include basic plant structure, plant growth and development, genetics, plant molecular biology, plant genetic engineering, plant culture techniques and an introduction to California agriculture. (GR)

**BIOL-130**  Introduction to Biology
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is an introduction to biological principles for non-science majors. Fundamental biological principles are covered including cell structure and function, ecology, evolution, genetics, taxonomy, and reproduction. (GC)

**BIOL-131D**  Review of Biological Concepts
18.00 hrs lecture
Units: 1.00
Corequisite: Concurrent enrollment in the appropriate biology classes
This course is designed to review course content in selected Biology course(s). This course introduces study techniques and more in-depth discussions of basic biological principles in the selected courses. Repeatable = 3 times (CR)

**BIOL-140**  Sierra Nevada Natural History
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
An introduction to the plants, animals, and geology of the Sierra Nevada. A three-day camping and learning experience in the Sierra Nevada will take place at the end of the semester. Emphasis is on learning the common plants and animals of the region. Recommended for anyone interested in natural history or ecology of the Sierra Nevada. (GC)

**BIOL-141**  Marine Biology
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-151B
Accepted For Credit: CSU
This course covers basic concepts of marine ecosystems including oceanographic principles, ecology, and a survey of marine habitats and diversity of marine organisms. Will include two field trips to Pacific tidal zones and to San Francisco Bay ecosystems. (GR)

**BIOL-142**  Environmental Biology
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: ENV-142
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This lecture and lab course is an introduction to the biological sciences focusing on diversity; organismal interactions with their environment and with other organisms (ecology), the effects humans have had on biological diversity and ecosystems, and efforts to protect species and their habitats (conservation). (GC)
BIOTECHNOLOGY
Division: Science, Technology, Engineering

BIOT-100 Biotechnology and Society
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
Introduction to the scientific principles and techniques of molecular biology and biotechnology, including recombinant DNA technology and gene cloning, recombinant protein design, and analysis of biomolecules. Discussion of technical, ethical, and safety concerns presented by medical, agricultural, pharmaceutical, and forensic applications of biotechnology. (GR)

BIOT-101 Environmental Biotechnology Research Projects
40.50 hrs lecture, 58.50 hrs lab
Units: 3.00
Prerequisite: BIOT-105
This course introduces students to scientific research in the field of biotechnology. It includes literature reviews, research proposal preparation, experimental design, hands-on experimentation, data interpretation and analysis, and presentation of written and oral reports. Students will maintain a professional laboratory notebook, and practice the behavior and skills required in a modern biotechnology lab. Repeatable = 3 times (GR)

BIOT-102 Chemical Safety and Hygiene
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Cross-referenced Course: CHMT-102
This course is about chemical and lab safety in the workplace with emphasis on hazardous materials and chemical safety; MSDS sheets; government regulations such as OSHA, FDA, FTC, and EPA; appropriate chemical disposal and recycling methodologies; inventory and storage; classification of chemicals according to safety and health hazards; ANSI standards; workers compensation; and quality assurance. In addition, a brief overview of development of Good Laboratory Practice (GLP) and Good Manufacturing Practice (GMP) will be taught. Students will also undergo basic first aid training, fire extinguisher training, and basic CPR training. (GR)

BIOT-104A HPLC
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Cross-referenced Course: CHMT-104A
This course trains students in High Pressure Liquid Chromatography, a technique used to separate and analyze chemical mixtures. The course is designed for beginners and intermediate level users in HPLC who want practical laboratory experience. The lectures, supplemental by problem sets, slides, and video presentations, provide the fundamentals needed to understand the techniques and instrumentation involved in this powerful analytical tool. Key topics include basic HPLC instrumentation, detectors, including UV/vis, photo diode array, column selection, qualitative and quantitative analysis and troubleshooting HPLC systems. (GR)

BIOT-104B Gas Chromatography
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Cross-referenced Course: CHMT-104B
This course is designed for beginners and intermediate level practitioners who want practical laboratory experience in gas chromatography. This course provides the fundamentals needed to understand the technique and instrumentation involved in this powerful analytical tool and covers basic gas chromatography theory, different columns, phases, qualitative identification, data capture, quantitation, integration, practical applications, and troubleshooting. At the end of the class the student will have mastered the fundamentals of GC, participated in extensive hands-on laboratory sessions, and learned specialized techniques based on the student’s specific interests. (GR)

BIOT-104C IR and UV/Vis Spectroscopy
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Cross-referenced Course: CHMT-104C
Prerequisite: CHEM-106B or CHEM-109
A hands-on, lab-based course designed to introduce infrared spectroscopy, this course outlines the various sample handling methods and the numerous transmission and reflectance methods available for infrared analysis. Lab-based lectures will focus on Fourier Transform Infrared (FT-IR) spectroscopy and its advantages, instrument set-up and parameters, and FT-IR sample analysis methods. The course provides hands-on training for obtaining representative infrared spectra of analytical samples. Data manipulation, spectral analysis, and functional group identification will also be taught. The course will also focus on UV-Vis spectroscopy as a complementary method to IR analysis. The UV-Vis spectroscopy will focus on general principles such as wavelength, absorption, transmittance, standard curves, Beers-Lambert’s Law, solvent effects, hypsochromic and bathochromic shifts, chromophores, conjugation, and UV spectral analysis. This course is designed for all levels of UV-Vis/IR instrument users. (GR)

BIOT-104D Nuclear Magnetic Resonance Spectroscopy
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Cross-referenced Course: CHMT-104D
Prerequisite: CHEM-106B or CHEM-109
An introductory lab-based course geared towards understanding the application of NMR spectroscopy for structural elucidation of compounds in the fields of organic chemistry, physical chemistry, and biochemistry. Topics include basic principles and theory of NMR and the application of chemical shifts, coupling constants, peak splitting, and peak integration to reveal the molecular structure. Labs will include important one-dimensional experiments and their application in assignments and structure determination problems. In addition, the students will get hands-on experience in acquiring NMR spectra using fundamental concepts of instrumentation such as shimming, sample probes, integration, peak and signal parameters, and basic troubleshooting. (GR)
BIOT-105 Introduction to Cell and Molecular Biology
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: MATH-151 and ENGL-151B
Accepted For Credit: CSU & UC
This course introduces basic laboratory research methods (e.g., measuring volume and mass, preparing solutions, using micropipetters, operating a spectrophotometer), and introductory concepts of biology (e.g., chemistry of life, cell structure and function, and classic and modern genetics) to students who are interested in biotechnology, yet have no science background. Also included are strategies to improve success in the classroom such as note-taking, studying, test-taking, and other techniques. Students are introduced to the scientific method; they use computers to prepare written reports; they maintain a professional quality laboratory notebook; and they will become familiar with the appropriate behavior and basic skills required in a modern, biological laboratory. Repeatable = 2 times (GR)

BIOT-106A Introduction to Bio-Manufacturing Instruments and Measurements
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: ENGL-151B, MATH-151
This course introduces students to basic laboratory research methods and concepts in biotechnology. Lab skills include the measurement of volumes and masses, as well as the proper use of micropipetters, pH meters, spectrophotometers, microscopes, and autoclaves. In addition, students master sterile techniques, solution preparation, media preparation, aseptic culture of microbial colonies, protein concentration assay techniques, and bacterial transformation. (GR)

BIOT-106B Current Lab Methods in Bio-Pharmaceutical Industry and Standard Operating Procedures
54.00 hrs lecture, 108.00 hrs lab
Units: 5.00
Prerequisite: BIOT-106A
Corequisite: BIOT-131D, BIOT-106M
This course trains students for entry-level manufacturing positions in Biotechnology. This course builds upon lab skills learned in BIOT-106A, providing theoretical background and advanced applications. Lab skills include protein purification techniques, dialysis, chromatography, electrophoresis, western blot analysis, serum fractionation, IgG purification, protein A column, ELISA, DNA analysis, and PCR. (GR)

BIOT-106M Math Applications in Biotechnology
36.00 hrs lecture
Units: 2.00
Corequisite: BIOT-106B, BIOT-131D
This course gives the student a sound foundation in mathematical operations, the metric system, calculations involving solution concentrations and dilutions, solving proportions, and other calculations encountered in biotechnology. Students also learn data management, including graphing, basic statistics, and Excel. (GR)

BIOT-110A Biotechnology Lab I
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: BIOT-105, CHEM-109 with grades of B or better
Accepted For Credit: CSU
This course introduces students to basic laboratory research methods and concepts in biotechnology. Lab skills developed include the use of basic measuring devices, preparing solutions and dilutions, aseptic culturing of microbes, separation technologies of electrophoresis (agarose polyacrylamide), chromatography (gel filtration, ion exchange, affinity, hydrophobic interactive, FPLC), extraction of DNA, DNA restriction digestion, PCR, DNA sequencing, STR genotyping for human identification, and 2-D gel electrophoresis. (GR)

BIOT-110A1 Introduction to DNA Techniques
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: BIOT-105 or BIOT-101A
Accepted For Credit: CSU
Introduction to DNA Techniques is a continuation of laboratory skills in molecular biology introduced in BIOT-105. The course content focuses on classical recombinant DNA techniques such as DNA extraction, restriction analysis, transformation, spectroscopy, and electrophoresis. Completion of this course will prepare students to enroll in BIOT-110A2 and BIOT-110A3. (GR)

BIOT-110A2 PCR I and DNA Sequencing
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: BIOT-110A1
Accepted For Credit: CSU
PCR I and DNA Sequencing is a continuation of laboratory skills in molecular biology mastered in BIOT-110A1. The course content focuses on PCR cloning and DNA sequencing using the Sanger sequencing chemistry on an Applied Biosystems 310 Genetic Analyzer. (GC)

BIOT-110A3 Protein Isolation and Assays
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: BIOT-110A1
Accepted For Credit: CSU
Protein Isolation and Assays continues the training in molecular biology laboratory techniques begun in BIOT-110A1 and BIOT-110A2. This course emphasizes the isolation and purification of proteins. Techniques include electrophoresis, chromatography (including HPLC & FPLC), and Western Blotting. (GC)

BIOT-111A Genomic and cDNA Library Construction and Analysis
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: BIOL-101A or BIOT-110A1
Accepted For Credit: CSU
This course uses lecture and lab approaches to teach students the theory and practice of lab techniques used to construct, search, and analyze simple genomic and cDNA libraries. Students will learn replica plating, southern and northern blotting, ELISA, and the use of non-radioactive oligonucleotide probes for searching libraries. (GR)

“Going to college is important for me because no one in my family has ever been to college and I want to be the first to graduate and set a great example for my younger sisters.”

Ariana Figueroa
Newark Optimist Club Joe Burnett
Helping Hand Scholarship Recipient
Future goals: Become a nurse
BIOT-111B  PCR Primer Design and Optimization and Reverse Transcription
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: BIOT-110A
Accepted For Credit: CSU
Students will learn advance topics in PCR, including BLAST searches and DNA alignment protocols for locating minimal variable sequences to use in constructing PCR primers, principles of primer design, and optimization techniques for PCR reactions. Students will design primers, optimize salt and temperature parameters for PCR, and perform RT-PCR. (GR)

BIOT-112  Introduction to Bioinformatics
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: ENGL-101A and MATH-151
Accepted For Credit: CSU
This course introduces computational biology and focuses on the computer analysis of biological sequences and structures. The course includes molecular biology databases, techniques for biological specimen preparation. Repeatable = 2 times (GR)

BIOT-113  GMP/GLP
18.00 hrs lecture
Units: 1.00
Accepted For Credit: CSU
This course introduces the concept of GMP (Good Manufacturing Practice) and GLP (Good Laboratory Practice), and their applications in the biotechnological manufacturing of therapeutic products. The course will discuss what is GMP and GLP, the history of GMP/GLP, federal and international regulation for GMP/GLP and how GMP/GLP are being applied in a bio-manufacturing facility. A field trip to a GMP manufacturing plant in the Bay Area is included. (GR)

BIOT-114  Introduction to Plant Biology
45.00 hrs lecture, 27.00 hrs lab
Units: 3.00
Cross-referenced Course: BIOL-114
Accepted For Credit: CSU
This course introduces plant biology and careers related to plant biology. Topics include basic plant structure, plant growth and development, genetics, plant molecular biology, plant genetic engineering, plant culture techniques and an introduction to California agriculture. (GR)

BIOT-115A  Mammalian Cell Culture Techniques
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: BIOT-105 and BIOL-101A
Accepted For Credit: CSU
Through a series of lectures and hands-on laboratory procedures, this course introduces mammalian cell culture methods, including sterile technique, media preparation, and the establishment of primary and secondary cell lines. This course also provides students with the skills and concepts needed to work in today’s biotechnology industry. Successful students will qualify to work as technicians in cell culture, manufacturing, and quality control. Repeatable = 1 time (GR)

BIOT-115B  Bioreactor Cell Culture Techniques
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: BIOT-115A
Accepted For Credit: CSU
This course introduces animal cell culture methods, including use of a bioreactor. Through a series of lectures and hands-on exercises, students will learn the techniques and concepts needed to work in cell culture and biomanufacturing. Repeatable = 1 time (GR)

BIOT-116  Biotech Summer Institute
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Accepted For Credit: CSU
This course provides hands-on experience in molecular biology concepts and techniques. Students perform a variety of molecular techniques including PCR-based DNA cloning, restriction analysis, host cell transformation, DNA sequencing, forensic DNA fingerprinting, and protein extraction and purification. (GR)

BIOT-117  Immunology
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: BIOT-105 or BIOL-101A
Accepted For Credit: CSU
This course provides background and training for clean room operations in biotechnology. This course discusses clean room classifications, regulations, and procedures. Laboratory exercises simulate working conditions in clean room operations. (GR)

BIOT-119  Clean Room Operations
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Prerequisite: BIOT-105 or BIOL-101A
Accepted For Credit: CSU
This course introduces the use of microscopic imaging and microarray technology. Repeatable = 2 times (GR)

BIOT-120A  Introduction to SEM Technology
9.00 hrs lecture
Units: 0.50
Advisory: BIOL-130
Accepted For Credit: CSU
This course introduces the use of microscopic imaging and microarray technology. Repeatable = 2 times (GR)

BIOT-120B  SEM – Biological Applications and Techniques
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Prerequisite: BIOT-120A
Accepted For Credit: CSU
Students will learn theory and applications of Scanning Electron Microscopy in biological and non-biological disciplines including historical development of electron microscopes and current high technology applications of Scanning Electron Microscopes. (GR)

BIOT-120C  SEM – Physical Science
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Prerequisite: BIOT-120A
Accepted For Credit: CSU
Students will learn theory, operation, and applications of Scanning Electron Microscopy in physical sciences including techniques for biological specimen preparation. Repeatable = 2 times (GR)
BIOT-121 Biotechnology Careers
18.00 hrs lecture
Units: 1.00
Advisory: Eligible for ENGL-101A and MATH-151
Accepted For Credit: CSU
This course is designed to offer an in-depth view of the emerging careers in Biotechnology including agricultural, environmental, forensics, industrial, pharmaceutical, and medical biotechnology careers. Students will have an opportunity to meet many professionals in various biotechnology positions and to discuss the range of career options available and educational training required for each career. Repeatable = 1 time (GR)

BIOT-122 Introduction to Nanotechnology
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
Nanotechnology explores exciting potential applications of science pertaining to tiny structures. Students will be introduced to fundamentals of biology, chemistry, and engineering. (GC)

BIOT-123 Writing SOPs
9.00 hrs lecture
Units: 0.50
Prerequisite: BIOT-105 or BIOL-101A
Advisory: ENGL-101A
Accepted For Credit: CSU
This is a short training course on the writing of Standard Operating Procedures (SOPs) for biotechnology. The course investigates the rational for writing SOPs, and discusses the standards and regulations that need to be taken into account in planning SOPs. The course also covers the procedures, formats, and writing styles employed in writing, implementing, and evaluating SOPs. (GR)

BIOT-131 Computing Concepts in Biotechnology
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: CS-131
Accepted For Credit: CSU
This course introduces the basic computing concepts, the most commonly used computer algorithms, and programming languages in biotechnology. (GC)

BIOT-133A Data Analysis Using SAS
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: CS-133A
Prerequisite: BIOT-133 or CS-133
Accepted For Credit: CSU
This course focuses on the following key areas: statistical inference, analysis of variance, multiple regression, categorical data analysis, and logistic regression. (GR)

BIOT-133B SAS Graphing and ODS
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Cross-referenced Course: CS-141B
Advisory: BIOT-133 or CS-133
Accepted For Credit: CSU
This course introduces SAS/GRAPH and ODS. Learn how to design, construct, and display customized graphs quickly and efficiently. Learn how to create a data set from the results of most SAS procedures and build custom reports. Repeatable = 1 time (GC)

BIOT-133D Review of Biotechnology Concepts
18.00 hrs lecture
Units: 1.00
Corequisite: BIOT-106A and/or BIOT-106B and/or BIOT-106M
This course reviews concepts from selected biotechnology courses. This course also introduces study techniques. Students’ questions are answered and difficult topics are clarified; extra drill is provided where needed. (GR)
BROADCASTING

Division: Fine Arts, Business, and Communication Studies

BRDC-110 Digital Video for Web and DVD
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: MM-110
Advisory: MM-102A
Accepted For Credit: CSU

Students learn techniques to shoot, edit, and set the correct parameters to upload short videos to the Internet or create a DVD. Training in the use of digital cameras, microphones, lights, and video editing software. Topics include camera shots, transitions, composition, video file formats, compression, special effects, and producing video for You Tube, Web sites, and DVD. Repeatable = 2 times (GR)

BRDC-120 Introduction to Electronic Media
36.00 hrs lecture
Units: 2.00
Accepted For Credit: CSU

This course introduces the history, structure, function, economics, content, and evolution of radio, television, film, and the Internet, including traditional formats and emerging electronic media delivery systems. The social, political, regulatory, ethical, and occupational impact of the electronic media are studied. (GR)

BRDC-123A Radio Operations I
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Accepted For Credit: CSU

This course is an introduction to the technical operation of a radio broadcast facility. Applied concepts include preparing and producing material for broadcast, gathering and delivering local news on the air, operation of KOHL Radio by FCC standards, and creating an effective audition tape. Repeatable = 1 time (GR)

BRDC-123B Radio Operations II
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: BRDC-123A
Accepted For Credit: CSU

This course allows students to refine basic skills introduced in BRDC-123A. Advanced digital and analog production techniques are introduced. Additional areas of concentration include management and operations software systems, aircheck analysis, market overviews, and creating an effective employment package. Repeatable = 1 time (GR)

BRDC-124 Broadcast Internships
180.00 hrs lab
Units: 3.00
Prerequisite: BRDC-123A
Accepted For Credit: CSU

This course is for students who will intern at Bay Area broadcast stations, learning various aspects of the broadcasting business. Repeatable = 3 times (GR)

BRDC-127A Radio Broadcast Lab
54.00 hrs lab
Units: 1.00
Prerequisite: BRDC-123B
Accepted For Credit: CSU

This course focuses on laboratory practice utilizing knowledge and techniques gained in the radio programming and production courses. KOHL Radio serves as the operational lab. Repeatable = 3 times (GR)

BRDC-127B Radio Broadcast Lab
54.00 hrs lab
Units: 1.00
Prerequisite: BRDC-123B
Accepted For Credit: CSU

This course builds upon knowledge and techniques gained in BRDC-123A, BRDC-123B, and BRDC-127A. KOHL Radio serves as the operational lab. Repeatable = 3 times (GR)

BRDC-127C Radio Broadcast Lab
54.00 hrs lab
Units: 1.00
Prerequisite: BRDC-123B
Accepted For Credit: CSU

This course builds upon knowledge and techniques gained in BRDC-123B with emphasis on advanced content and on-air listener interaction. KOHL radio serves as the operational lab. Repeatable = 3 times (GR)

BRDC-127D Radio Broadcast Lab
54.00 hrs lab
Units: 1.00
Prerequisite: BRDC-123B
Accepted For Credit: CSU

This course builds upon knowledge and techniques gained in BRDC-127C with emphasis on live, on location broadcast situations. KOHL Radio serves as the operational lab. Repeatable = 3 times (GR)

BRDC-128 Radio Programming and Marketing
36.00 hrs lecture
Units: 2.00
Accepted For Credit: CSU

This course provides an overview of radio programming methods, strategies, promotion and evaluation techniques, and outlines the responsibilities of the professional radio program director. Repeatable = 1 time (GR)

BRDC-129 Digital Radio Studio Systems
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: BRDC-123A
Accepted For Credit: CSU

Students taking this course are introduced to advanced operational techniques of digital radio studio systems. Lab assignments are completed in the KOHL studios using the RCS Master Control platform. Repeatable = 3 times (GR)

BRDC-130 Broadcast Announcing
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU

Course concentration is on projection of personality, voice control, pronunciation, and related skills necessary for communication of ideas and information via broadcast. Students will learn important microphone techniques and put them to use under simulated broadcast circumstances. Repeatable = 1 time (GR)

BRDC-132 Studio Recording
54.00 hrs lecture, 18.00 hrs lab
Units: 3.00
Cross-referenced Course: MUS-113
Accepted For Credit: CSU

This course is an introduction to the recording studio. The course follows the path of audio signals through the microphone, mixer, signal processors, digital audio workstation (DAW), and monitoring stations. The course explores various types of microphones, the functions of virtual mixing boards, the characteristics of plug-in signal processors, and recording techniques. (GR)
Repeatable = 1 time (GC)

which are then broadcast live on local cable and the Internet.

Students write, report, shoot, and edit feature stories and

 accepts for credit: CSU

Units: 3.00

36.00 hrs lecture, 54.00 hrs lab

AVID Editing

Repeatable = 1 time (GR)

Students learn advanced techniques used in commercial film

and video production. Students develop the ability to create

polished transitions, edit multi-camera projects, work with

nested sequences, the basics of keyframing and composite

modes and how to use noise reduction in Soundtrack Pro to

normalize audio tracks. Repeatable = 1 time (GR)

Digital Video and Lighting

Repeatable = 1 time (GR)

The basics of shooting a story using professional video

cameras under the guidance of broadcast industry

professionals. Course covers history of news recording from

film to videotape and current memory stick formats. Students

develop skills in video production, news gathering, lighting,

and storytelling. Repeatable = 1 time (GR)

Video Field Production

Repeatable = 1 time (GR)

Students learn advanced techniques of shooting video for

commercial television news. Repeatable = 1 time (GR)

AVID Editing

Repeatable = 1 time (GR)

Students learn the basics of editing a television story using

AVID non-linear editing system. Students also develop

storytelling skills. Repeatable = 1 time (GR)

Live TV Newscast

Repeatable = 2 times (GC)

Students write, report, anchor, shoot, and edit a weekly

newscast which is then broadcast live on local cable and the

Internet. Repeatable = 2 times (GC)

Film and Video Production

Repeatable = 2 times (GC)

Advanced film and video production techniques, with

emphasis on lighting and short film production. Repeatable = 3 times (GC)

Mass Media and Society

Repeatable = 2 times (GC)

Students learn the basics of editing a television package in the

students learn how to do creative television highlights shows and the

live broadcast of Ohlone College sporting events. Repeatable = 2 times (GC)

Directing Live Television

Repeatable = 2 times (GC)

Train to do on air play-by-play or be part of the behind-the-scenes production crew on live sports highlights shows and the live broadcast of Ohlone College sporting events. Repeatable = 2 times (GC)

Business Administration

Division: Fine Arts, Business, and Communication Studies

Financial Accounting

This course introduces accounting theory, procedures, and

practices relating to financial accounting. (GR)

Managerial Accounting

This course is an introduction to managerial accounting

including the analysis and interpretation of accounting data to aid management. (GR)
BA-102A  Principles of Economics-Macroeconomics  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: MATH-153  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  

Introduction to Macroeconomics. The topics explored include supply and demand, government spending, taxation, business cycles, fiscal policy, monetary policy, money and banking system, inflation, unemployment, national income, and international economics. (GR)  

BA-102B  Principles of Economics-Microeconomics  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: MATH-153  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  

Introduction to Microeconomics. The topics explored include demand, supply, market structure, pricing policies, labor market, elasticity and its application, public goods and common resources, and environmental policy. (GR)  

BA-104  Computer Applications in Accounting  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Prerequisite: BA-101A or BA-106  
Accepted For Credit: CSU  

This course covers the application of accounting theory on the computer using spreadsheet software. (GR)  

BA-105  Income Tax Principles  
72.00 hrs lecture  
Units: 4.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  

This course provides an analysis of the principles, procedures, and terminology of income taxes on individual taxpayers. (GC)  

BA-106  Applied Accounting  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151A; concurrent enrollment in BA-123  
Accepted For Credit: CSU  

This course covers fundamentals of accounting theory and applications. (GC)  

BA-107  Cost and Managerial Accounting  
72.00 hrs lecture  
Units: 4.00  
Prerequisite: BA-101A and BA-101B  
Accepted For Credit: CSU  

This course presents the theory, procedures, and practice relating to material, labor, and factory overhead production costs, including job order, process, and standard cost systems. It also includes analytical skills used to interpret accounting data to be used by management in planning and controlling business activities. (GC)  

BA-109B  Computerized Accounting for Small Business  
22.50 hrs lecture, 13.50 hrs lab  
Units: 1.50  
Advisory: Concurrent enrollment in BA-101A or BA-106  

This course is designed to meet the accounting needs of a small business. A widely-used software package (such as QuickBooks) will be presented. (GC)  

BA-115  Career Communication  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: SPCH-115  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  

Develop vital communication skills for global and diverse professional environments including presentational skills, interviewing, meeting management, small group communication, and leadership skills. (GR)  

BA-116  Business English and Communication  
72.00 hrs lecture  
Units: 4.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  

This course reviews the fundamentals of English grammar, punctuation, and sentence structure from a business approach. Writing skills for clear and effective business communication are developed through letters and reports. (GC)  

BA-121A  Developing Your Business Plan  
9.00 hrs lecture  
Units: 0.50  

This is a class designed for students considering starting their own businesses. All major elements of a Business Plan will be covered: financial statements, marketing, and competitive strategies. (GC)  

BA-121B  Legal Aspects of Small Business  
9.00 hrs lecture  
Units: 0.50  

This course is designed for students interested in establishing a business and needing information about the legal issues involved. The information is very practical and is presented in a clear, concise manner. Legal aspects such as forms of ownership, licensing, and taxes will be covered. (GC)  

BA-123  Math for Accounting and Business  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and MATH-151  
Accepted For Credit: CSU  

This course focuses on methods of problem interpretation and solving of common business calculations. Problems such as taxes, interest, depreciation, stocks, and insurance are covered by means of lecture and individual operations of calculators and computers. (GC)  

BA-125  Introduction to Business  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU & UC  

This course examines the purposes, organization, and major activities of business operations. Emphasis is placed on understanding relationships of business, government, and the consumer in a global economy. This is a survey course designed to give students a brief outline of most of the major activities in business. (GC)  

BA-126  Introduction to Marketing  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  

This course explores all fundamental aspects of marketing and the role marketing plays in the overall context of business. How markets develop, market segmentation and target marketing, the 4Ps of marketing (product, price, promotion, placement), and marketing theory and practice are examined in detail. (GC)
BA -139  Introduction to Advertising  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  
This course is a study of the economic, sociological, and psychological dimensions of consumer motivation and behavior. This introductory course explores the broad fundamentals of advertising. (GC)

BA -136  Introduction to International Business  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU  
This course presents the latest theories and concepts of international business while highlighting the leading role culture plays in global commerce. (GC)

BA -137  Introduction to International Marketing  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU  
Survey course that covers the essential elements of international marketing, beginning with its definition and concluding with international marketing strategy implementation. (GC)

BA -138A  Services Export Marketing  
18.00 hrs lecture  
Units: 1.00  
Accepted For Credit: CSU  
An examination of marketing services in a global environment. This course will identify the unique cultural and structural challenges involved in exporting services and the strategies and tools to overcome these challenges. Students will also learn about service export market entry strategies, most promising service exports, and how to identify suitable export markets. (GR)

BA -139  Psychology in the Workplace  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: PSY-139  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course applies principles of psychology to the workplace. Topics include combination skills, stress, cultural diversity, teamwork, understanding self and others, motivation, leadership, and other factors crucial to functioning effectively in the workplace. (GC)

BA -140  Global Business Immersion  
36.00 hrs lecture  
Units: 2.00  
Advisory: ENGL-151A  
Accepted For Credit: CSU  
This course will revolve around a three-week study abroad program based in a particular country, focusing on global business in that country. Students will have an opportunity to explore directly the widest possible variation of business environments and practices. The course will also review the cultural, historical, and political environments which affect the business practices in that country. (GC)

BA -141A  Business Law  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an introduction to law applicable to business including the legal environment of business, ethics, sustainability, contracts, agency, and sales law. This course also satisfies the real estate law requirement for the real estate certificate. (GC)

BA -141C  An Introduction to International Law  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU  
This course is an introduction to international business law, featuring trade (import and export), licensing agreements for the transfer and protection of patents, copyrights, trademarks and intellectual property (including franchising), and active foreign investment through mergers, acquisitions, and joint ventures. (GC)

BA -142  International Economics  
54.00 hrs lecture  
Units: 3.00  
Advisory: BA-102A, BA-102B  
Accepted For Credit: CSU  
Students study theories of the causes and effects underlying international economies with a focus on international trade, international finance, and the study of governmental policies that alter the pattern of trade between nations. (GR)

BA -143  Sports Marketing  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: KIN-243  
Accepted For Credit: CSU  
This course examines the application of the principles of promotion, sponsorship, sales, revenue, and marketing to the sport and fitness industry. The areas covered will include high school/collegiate athletics, professional sports, and the fitness club industry. (GC)

BA -144  Sports Management  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: KIN-244  
Accepted For Credit: CSU  
This course provides an overview of professional sport management in North America. The political, historical, social, economic, and cultural impacts of sport management are explored. Topics will include team management, organizational administration, legal issues, public relations, and facility management. Students will become familiar with career opportunities in the sports management field. (GR)

BA -160A  Computer Graphics I  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ART-160A, GA-160A, CS-160A  
Accepted For Credit: CSU & UC  
This course is an introduction to microcomputers and to the creation of computer-generated graphics. This course examines the variety of software/hardware tools and techniques available for the production of computer-made imagery. The emphasis is on hard-copy production using printers, plotters, and other reproduction methods. This course also covers design principles, business graphics, and elementary programming principles. Repeatable = 3 times (GC)
**BA-160B**  
**Computer Graphics II**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ART-160B, GA-160B, CS-160B  
Prerequisite: ART-160A, BA-160A, GA-160A, CS-160A  
Accepted For Credit: CSU  
This course is a continuation of BA-160A. The emphasis in this course is on developing intermediate and advanced skills needed to operate a computer graphics work station. The students complete projects of their choice using more complex Paint and CAD software, printers, and plotters. Repeatable = 1 time (GC)

**BA-192**  
**Service Learning Internship**  
72.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
Service learning is a teaching and learning method that integrates community service with academic coursework as it focuses on critical, reflective thinking. Repeatable = 2 times (GC)

**BA-195A1**  
**Work Experience Education – Vocational**  
75.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

**BA-195A2**  
**Work Experience Education – Vocational**  
150.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

**BA-195A3**  
**Work Experience Education – Vocational**  
225.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
Work experience education for students employed in a job directly related to a major. Units received are based on hours worked. (GC)

**BA-195A4**  
**Work Experience Education – Vocational**  
300.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

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**BUSINESS SUPERVISION MANAGEMENT**

Division: Learning Resources and Academic Technology

**BSM-101**  
**Fundamentals of Supervision**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This course covers basic supervisory principles and practices: the supervisor’s job; politics/power; decision making; the functions of planning, organizing, and controlling; and quality control. (GC)

**BSM-102**  
**Interpersonal Relations in the Workplace**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This course covers interpersonal communications, employee-employer relations, ethnic cultural awareness, conflict resolution, stress, and team development. (GC)

**BSM-103**  
**Management of Human Resources**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This course covers principles and practices of human resources for first line and above managerial personnel; employment/industrial relations, equal employment opportunity, sexual harassment, training/development, wage/salary/benefit administration, job performance reviews, and safety/accident prevention. (GC)

**BSM-105**  
**Operations Management**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This course covers Operations Management: globalization; forecasting; materials/production/project management; total quality management principles and practices. (GC)

**BSM-106**  
**Communication for Supervisors**  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU  
This course covers the principles and practices of the theory of communications, including listening, intercultural communications, verbal and non-verbal communication, meetings, and presentations. (GC)

**BSM-108**  
**Leadership in Organizations**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This course covers principles of power and politics; team decision-making/problem solving; motivation coaching and counseling; law, social responsibility, and business ethics. (GC)

**BSM-195A1**  
**Work Experience Education – Vocational**  
75.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

**BSM-195A2**  
**Work Experience Education – Vocational**  
150.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

**BSM-195A3**  
**Work Experience Education – Vocational**  
225.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

**BSM-195A4**  
**Work Experience Education – Vocational**  
300.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)
**CHEMICAL TECHNOLOGY**

Division: Science, Technology, and Engineering

**CHMT-103A** Chemical Technology I

- 54.00 hrs lecture, 54.00 hrs lab
- Units: 4.00
- Advisory: ENGL-151B, MATH-151

This is a basic course that covers chemical principles, plus career and educational aspects of chemical technology. Topics will cover chemical nomenclature, atoms and molecules and their reactions, chemical and physical properties of materials, and chemical principles. In addition, students will get hands-on training in sample preparation, keeping lab notebooks, industry-based data processing, operation of basic lab equipment, and bioanalysis. This course will also cover employment opportunities, job functions, and case studies of workplace activities with hands-on industry-based labs. (GR)

**CHMT-103B** Chemical Technology II – Analytical Skills

- 36.00 hrs lecture, 54.00 hrs lab
- Units: 3.00
- Prerequisite: CHMT-103A

Students gain extensive training in lab skills pertaining to chemistry. The course focuses on the use of chemical principles in chemical analysis. Topics include sample preparation, SOPs, gravimetric analysis, titrimetric analysis, qualitative and quantitative analysis, potentiometry, combustion analysis, atomic spectroscopy, and electrochemistry. Analytical separations such as filtration, recrystallization, sublimation, extraction, melting point analysis, chromatography (TLC and column), gel electrophoresis, and bioanalysis will also be taught. In addition, this course will cover the scientific method, statistics of sampling, error analysis, the analytical process, proper measurement protocols, data processing, lab notebook protocols, and the proper writing of industry-style lab reports. (GR)

**CHMT-104A** HPLC

- 4.50 hrs lecture, 13.50 hrs lab
- Units: 0.50
- Cross-referenced Course: BIOT-104A

This course trains students in High Pressure Liquid Chromatography, a technique used to separate and analyze chemical mixtures. The course is designed for beginners and intermediate level users in HPLC who want practical laboratory experience. The lectures, supplemental by problem sets, slides, and video presentations, provide the fundamentals needed to understand the techniques and instrumentation involved in this powerful analytical tool. Key topics include basic HPLC instrumentation, detectors, including UV/Vis, photo diode array, column selection, qualitative and quantitative analysis and troubleshooting HPLC systems. (GR)

**CHMT-104B** Gas Chromatography

- 4.50 hrs lecture, 13.50 hrs lab
- Units: 0.50
- Cross-referenced Course: BIOT-104B

This course is designed for beginners and intermediate level practitioners who want practical laboratory experience in gas chromatography. This course provides the fundamentals needed to understand the technique and instrumentation involved in this powerful analytical tool and covers basic gas chromatography theory, different columns, phases, qualitative identification, data capture, quantitation, integration, practical applications, and troubleshooting. At the end of the class the student will have mastered the fundamentals of GC, participated in extensive hands-on laboratory sessions, and learned specialized techniques based on the student's specific interests. (GR)

**CHMT-104C** IR and UV/Vis Spectroscopy

- 4.50 hrs lecture, 13.50 hrs lab
- Units: 0.50
- Cross-referenced Course: BIOT-104C
- Prerequisite: CHEM-106B or CHEM-109

A hands-on, lab-based course designed to introduce infrared spectroscopy, this course outlines the various sample handling methods and the numerous transmission and reflectance methods available for infrared analysis. Lab-based lectures will focus on Fourier Transform Infrared (FT-IR) spectroscopy and its advantages, instrument set-up and parameters, and FT-IR sample analysis methods. The course provides hands-on training for obtaining representative infrared spectra of analytical samples. Data manipulation, spectral analysis, and functional group identification will also be taught. The course will also focus on UV-Vis spectroscopy as a complementary method to IR analysis. The UV-Vis spectroscopy will focus on general principles such as wavelength, absorption, transmittance, standard curves, Beers-Lambert’s Law, solvent effects, hypsochromic and bathochromic shifts, chromophores, conjugation, and UV spectral analysis. This course is designed for all levels of UV-Vis/IR instrument users. (GR)
CHMT-104D  Nuclear Magnetic Resonance Spectroscopy
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Cross-referenced Course: BIOT-104D
Prerequisite: CHEM-106B or CHEM-109
An introductory lab-based course geared towards understanding the application of NMR spectroscopy for structural elucidation of compounds in the fields of organic chemistry, physical chemistry, and biochemistry. Topics include basic principles and theory of NMR and the application of chemical shifts, coupling constants, peak splitting, and peak integration to reveal the molecular structure. Labs will include important one-dimensional experiments and their application in assignments and structure determination problems. In addition, the students will get hands-on experience in acquiring NMR spectra using fundamental concepts of instrumentation such as shimming, sample probes, integration, peak and signal parameters, and basic troubleshooting. (GR)

CHEM-102  Preparation for General Chemistry
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: MATH-151
Accepted For Credit: CSU & UC
This course is a preparatory chemistry course covering the fundamentals of modern inorganic chemistry with emphasis on problem solving and mathematical calculations. Topics include classification of matter, atomic and molecular structure, chemical formula and nomenclature, chemical equations and stoichiometry, thermochemistry, and gas laws and solutions. Chemistry 102 is intended primarily as a preparation for students planning to take college level Chemistry 101A. This course is recommended for students who have been away from high school chemistry for more than two years or those whose previous chemistry background is inadequate for Chemistry 101A. (GR)

CHEM-106A  Principles of Chemistry
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: MATH-151
Accepted For Credit: CSU & UC
This is an introductory chemistry course for non-science majors who plan to transfer to programs which require two semesters of chemistry, other than CHEM-101A and CHEM-101B. Topics include dimensional analysis, nomenclature, atomic theory, bonding, chemical reactions, the major classes of organic molecules, basic reactions, the major processes which take place in body fluids, proteins, nucleic acids, and a brief overview of metabolism. This course satisfies the general education requirements for non-science majors. (GR)

CHEM-106B  Principles of Chemistry
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: CHEM-106A
Accepted For Credit: CSU & UC
This an introductory chemistry course for non-science majors who plan to transfer to programs which require two semesters of chemistry, other than CHEM-101A and CHEM-101B. The course includes material from organic chemistry and biochemistry, including the major classes of organic molecules, basic reactions, the major processes which take place in body fluids, proteins, nucleic acids, and a brief overview of metabolism. This course satisfies the general education requirements for non-science majors. (GR)

Did you know???
During 2010-2011 Ohlone’s athletic teams won three Coast Conference Championships (Women’s Basketball, Women’s Softball, and Men’s Baseball) and two sports reached the State Championship tournament (Men’s Baseball and Swimming)!
CHEM-108  Survey of Chemistry  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU & UC  
This is a general education, non-lab course about the chemistry of everyday things. Some of the topics considered are food, medicine, petroleum, pollution, plastics, cosmetics, and poisons. The course gives information about atoms and structure to help students interpret everyday occurrences from a molecular point of view. Concepts, not calculations, are emphasized. The course is intended for non-science majors wishing to satisfy the General Education science requirement for CSU and UC transfer institutions. (GC)

CHEM-109  Biochemistry for Health Science and Biotechnology  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: MATH-151  
Accepted For Credit: CSU & UC  
This course covers the basic concepts of inorganic and organic chemistry and biochemistry as they apply to the human body. It is open to all students; no previous chemistry required. This course satisfies the requirements of nursing, biotechnology, and related majors that require one semester of chemistry. Students preparing to enroll in CHEM-101A should enroll in CHEM-102. (GR)

CHEM-112A  Organic Chemistry  
54.00 hrs lecture, 108.00 hrs lab  
Units: 5.00  
Prerequisite: CHEM-101B  
Accepted For Credit: CSU & UC  
CHEM-112A is the first semester of organic chemistry for science-oriented, pre-professional health, and pre-engineering students. This course includes a study of important organic molecules found in living systems and man-made molecules. This course is designed primarily for students who require a full year of organic chemistry, including multistep synthesis and heterocyclic compounds and advanced spectroscopy. (GR)

CHEM-112B  Organic Chemistry  
54.00 hrs lecture, 108.00 hrs lab  
Units: 5.00  
Prerequisite: CHEM-112A  
Accepted For Credit: CSU & UC  
CHEM-112B is the second semester of organic chemistry for science oriented, pre-professional health, and pre-engineering students. This course includes a study of important organic molecules found in living systems and man-made molecules. This course is designed primarily for students who require a full year of organic chemistry, including nomenclature, multistep synthesis, mechanisms and heterocyclic compounds and spectroscopy. (GR)

CHEM-131D  Review of Chemistry Concepts  
18.00 hrs lecture  
Units: 1.00  
This course is designed to review the content in selected Chemistry course(s). It is an introduction to study techniques and more in-depth discussions of chemistry principles and problem solving. Repeatable = 3 times (CR)

CHEM-190  Scientific Research Methodology  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Prerequisite: Consent of instructor  
Advisory: MATH-188; major in science, technology, engineering, or math  
This course introduces students to scientific research methods. It includes hypothesis writing, variable identification, experimental design, literature reviews, data interpretation and analysis, research proposal preparation, and presentation of scientific papers. (GR)

CHICANO STUDIES

Division: Humanities, Social Sciences, and Mathematics

CHS-101  Chicano Culture  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: SOC-106  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course examines the social, cultural, political, and economic heritage of the Chicanos and their contribution to American society. (GR)

CHS-102  Chicano History  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: HIST-112  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course covers the development of Chicano history. Special emphasis will be placed upon the influence of Chicano history on contemporary institutions, particularly in the Southwest and California. (GC)

CHS-106A  Chicano Literature  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU & UC  
This course offers an introduction to writing by Chicanos. Through performing in-depth studies of certain authors, the students will view literature as a reflection of Chicano life. (GC)

CHS-109  Barrio Fieldwork  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
Observation of selected barrios, institutions, agencies. (GR)

CHS-112  Contemporary Issues of Chicanas  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ENGL-163; eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an examination of the historical, social-economic, and political conditions which have shaped the lives of contemporary Chicanas in the United States. It will explore cultural patterns underlying race, class, and gender-based strategies and inequities as basic elements of contemporary social structure. (GC)
CHINESE
Division: Humanities, Social Sciences, and Mathematics

CHIN-101A Elementary Mandarin Chinese I
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Accepted For Credit: CSU & UC
This course is an introduction to modern standard Chinese language (Mandarin). Students will acquire listening, speaking, reading, and writing skills in or to communicate effectively in simple Chinese for common everyday purposes. This course teaches the Chinese phonetic system, the structures of Chinese characters, the basic Chinese grammatical concepts, and aspects of Chinese culture in relation to the topic of the concurrent lesson. (GR)

CHIN-101B Elementary Mandarin Chinese II
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: CHIN-101A or two years of high school Chinese
Accepted For Credit: CSU & UC
This course is a continuation of CHIN-101A. Students will continue to acquire listening, speaking, reading and writing skills in Chinese (Mandarin) and will continue cultural studies as an integral part of the course. (GR)

CHIN-102A Intermediate Mandarin Chinese I
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: CHIN-101B or three years of high school Chinese
Accepted For Credit: CSU & UC
This course is a continuation of CHIN-101B with emphasis on the four areas of listening, speaking, reading, and writing in Mandarin, as well as the study of Chinese culture with greater depth. (GR)

CHIN-102B Intermediate Mandarin Chinese II
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: CHIN-102A
Accepted For Credit: CSU & UC
This course is a continuation of CHIN-102A with emphasis on the four areas of listening, speaking, reading, and writing in Mandarin, as well as the study of Chinese culture with greater depth. (GR)

CHIN-121B Mandarin Chinese Conversation II
54.00 hrs lecture
Units: 3.00
Prerequisite: CHIN-121A
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU
This course is a continuation of CHIN-121A, an introduction to the study of speaking, reading, and writing the Chinese language (Mandarin) at the college level with emphasis on daily conversation in cultural contexts. (GC)

COMMUNICATION
Division: Fine Arts, Business, and Communication Studies

COMM-100 Introduction to Communication Theory
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
Analyze and evaluate the major communication theories and research in the communication studies field. (GR)

COMM-108 Visual Communication
54.00 hrs lecture, 36 hrs lab
Units: 3.00
Cross-referenced Course: MM-108
Accepted For Credit: CSU & UC
This course explores the fundamental elements of visual communication presented through lectures and applied through studio experiences. Examine the methods of visual communication from Gutenberg to Google, analyzing examples in a variety of visual forms including print (newspaper and magazine), graphics, illustrations, photographs, video, motion pictures, and digital media. (GR)

COMPUTER APPLICATIONS AND OCCUPATIONAL TECHNOLOGY
Division: Learning Resources and Academic Technology

CAOT-101A Computer Applications I
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Cross-referenced Course: CS-101A
Advisory: CS-101
Accepted For Credit: CSU
This course is the first in a three part series covering topics which include how to use Word documents, spreadsheets, database management programs, presentation graphics, and how to effectively use personal information manager programs. Students will also learn how to integrate program components. Formerly CAOT-101L. Repeatable = 1 time (GC)

CAOT-101B Computer Applications II
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Advisory: CAOT-101A
Accepted For Credit: CSU
This course is the second in a three part series covering topics which include how to use Word documents, spreadsheets, database management programs, presentation graphics, and how to effectively use personal information manager programs. Students will also learn how to integrate program components. (GC)

Did you know???
Transfer students from community colleges to the University of California account for 48% of UC’s bachelor’s degrees in science, technology, engineering, and mathematics.
Source: Community College League of California
CAOT-104  Basic Keyboarding  
54.00 hrs lab  
Units: 1.00  
This self-paced introductory course develops basic keyboarding skills for students entering a variety of fields such as computer science, data processing, accounting, or any other occupation that utilizes a keyboard similar to a typewriter to input information. No typing applications will be covered. Repeatable = 3 times (GC)

CAOT-110A  Beginning Keyboarding  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
This self-paced course includes mastery of the keyboard with touch typing. Repeatable = 1 time (GC)

CAOT-110B  Beginning Keyboarding II  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Prerequisite: CAOT-110A  
This self-paced course includes an introduction to business and personal letters, tabulation, and business reports. Repeatable = 3 times (GC)

CAOT-110C  Beginning Keyboarding III  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
CAOT-110C is the final course in a three-part series where students learn mastery of creating and formatting business documents. Repeatable = 3 times (GC)

CAOT-111  Intermediate Keyboarding  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: CAOT-110C or one year high school typewriting  
This self-paced course includes improvement of basic skills, letter production, business forms, tabulated reports, and manuscripts. (GC)

CAOT-112  Advanced Keyboarding  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Prerequisite: CAOT-111 or two years high school typing  
This self-paced course includes production typing with emphasis on speed and accuracy in the preparation of business letters, legal forms, financial statements, and manuscripts. (GC)

CAOT-120  ESL and Basic Computer Skills (Part I)  
18.00 hrs lecture, 27.00 hrs lab  
Units: 1.50  
This course combines language learning with training in basic computer skills. This course has been designed to help non-native speakers of English develop entry-level computer and communication skills. Not applicable to associate degree. Repeatable = 3 times (GC)

CAOT-134A  Beginning Microsoft Access  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Advisory: Eligible for ENGL-151B and ENGL-163  
This is a beginning database course using Microsoft Access, which reviews basic database concepts and teaches beginning database skills. This course is the first of three sequencing courses in the Microsoft Office Suite. Repeatable = 2 times (GC)

CAOT-134B  Intermediate Microsoft Access  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Advisory: Eligible for ENGL-151B and ENGL-163  
This is an intermediate database course using Microsoft Access, which reviews basic database concepts and teaches database skills. This course is the second of three sequencing courses in the Microsoft Office Suite. Repeatable = 1 time (GC)

CAOT-146  Computer Applications in Engineering  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Corequisite: ENGI-101  
This course introduces basic computer skills necessary to perform tasks required in an introductory Engineering course. This course covers key concepts in MS Word, Excel, PowerPoint, Internet functions and etiquette. Repeatable = 1 time (GR)

CAOT-147  Computer Applications in Biology  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Corequisite: BIOL-101A  
This course introduces basic computer skills necessary to perform tasks required for biology majors. This course covers key concepts in Excel, PowerPoint, and Access. This course must be taken concurrently with BIOL-101A. (GR)

CAOT-148  Computer Applications in Biotechnology  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Corequisite: BIOT-105  
This course introduces basic computer skills necessary to perform tasks required in an introductory biotechnology course. This course covers key concepts in Excel, PowerPoint, and Access. Repeatable = 1 time (GR)

CAOT-150  Computer Applications for Chemistry  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Corequisite: CHEM-101A  
This course introduces basic computer skills necessary to perform tasks required in an introductory Chemistry course. This course covers key concepts in Excel, PowerPoint, and Word. Repeatable = 1 time (GR)

CAOT-153  Introduction to Internet  
18.00 hrs lecture  
Units: 1.00  
Advisory: CS-101  
Accepted For Credit: CSU  
This course is an introduction to the Internet. The course will describe the history and architecture of the Internet and will demonstrate how to use various services and tools of the Internet, including Web browsers and search engines, how to do legal research, cyberlaw, and knowledge of HTML. (GC)
CAOT-161A  Digital Graphics I  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Cross-referenced Course: ART-161A, GA-161A  
Accepted For Credit: CSU  
This course is an overview of computer graphics on desktop computers for graphic designers, artists, typographers, and for business applications. This course will cover hardware and software including: laser printers, ink jet printers, scanners, tablets, and bit-mapped and vector-based graphics programs. This course also covers design principles and business graphics. The course emphasis is on the creation of a portfolio of computer graphics drawings. Repeatable = 3 times (GC)

CAOT-161B  Digital Graphics II  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Cross-referenced Course: ART-161B, GA-161B  
Prerequisite: GA-161A, ART-161A, or CAOT-161A  
Accepted For Credit: CSU  
This course is a continuation of CAOT-161A. The emphasis in this course is on developing intermediate and advanced skills needed to set up and operate a digital graphics work station and publish on the Web. Students complete projects of their choice using complex graphics software, scanners, tablets, and printers. The course emphasis is on the continued development of a portfolio of computer images. Repeatable = 3 times (GC)

CAOT-166  2D Drafting with AutoCAD  
45.00 hrs lecture, 2700 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
This course introduces the basic drafting concepts, and AutoCAD tools to create 2D drawings. It teaches fundamental skills for drafting and engineering students. (GC)

CAOT-167  3D Drafting with AutoCAD  
45.00 hrs lecture, 2700 hrs lab  
Units: 3.00  
Advisory: CAOT-166  
Accepted For Credit: CSU  
This course introduces the advanced drafting concepts of AutoCAD for three dimensional design and for connecting it with other industrial software programs. It teaches fundamental skills for drafting and engineering students. (GC)

CAOT-187  PowerPoint Presentations  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Advisory: Eligible for ENGL-151B and ENGL-163  
This is an introductory course in creating presentations with Microsoft PowerPoint software on an IBM computer with mention of the MAC platform. Presentations – which include slides, lecture notes and handout pages – will be created, edited, and printed. Repeatable = 1 time (GC)

CAOT-193A  Beginning Excel  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Advisory: Eligible for ENGL-151B and ENGL-163  
This is an introductory course in the use of microcomputer spreadsheets for business applications. Topics include basic commands, developing spreadsheet models, and using printing options. Repeatable = 1 time (GC)

CAOT-193B  Intermediate Excel  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Advisory: CAOT-193A; eligible for ENGL-151B, ENGL-163  
This is an intermediate course in the use of microcomputer spreadsheet for business applications. Topics include using mixed cell references, large worksheets, simple database functions, charts, and working with multiple worksheets. Repeatable = 1 time (GC)

CAOT-193C  Advanced Excel  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
Advisory: CAOT-193B; eligible for ENGL-151B, ENGL-163  
This is an advanced course in the use of Excel for business applications. Topics include working with multiple worksheets, examining cost-volume-profit relationships and "what if" analyses, importing files and tables, and retrieving data from the World Wide Web. Repeatable = 1 time (GC)

CAOT-195A1  Work Experience Education – Vocational  
75.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

CAOT-195A2  Work Experience Education – Vocational  
150.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

CAOT-195A3  Work Experience Education – Vocational  
225.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

CAOT-195A4  Work Experience Education – Vocational  
300.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

“I want my kids to be proud of their mother and I also want other mothers to see that if I can do it with three kids they too can also continue their education.”

Abelina Campos  
James Leal Law Enforcement Scholarship Recipient  
Future goals: Earn an Associate in Arts degree in Administration of Justice
COMPUTERS, NETWORKS, AND EMERGING TECHNOLOGY
Division: Science, Technology, and Engineering

CNET-101  Introduction to Computers and Information Technology
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: CS-101
Advisory: Eligible for ENGL-151B and ENGL-163; concurrent enrollment in CS-101A
Accepted For Credit: CSU & UC
This course is a general introduction to the area of computers and information technology and is designed for all students. This survey course will examine a broad overview of topics including software, hardware, the networking of computer systems, and information technology. Students will explore the implications of this technology with regard to today’s information society. (GC)

CNET-102  Information and Communication Technology – Web 2.0
54.00 hrs lecture
Units: 3.00
Advisory: CS/CNET-101
Accepted For Credit: CSU
This course is a general introduction to the application of information and communication technology (ICT), and is designed for students who have a focused interest in connecting, collaborating and sharing knowledge. This course will examine Web 2.0 applications and services – such as social-networking sites, wikis, and folksonomies – which aim to facilitate collaboration and sharing between users. (GC)

CNET-105  PC Hardware and Software
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Accepted For Credit: CSU
This course includes hardware and software topics relevant to personal computer (PC) troubleshooting. Emphasis is placed on developing essential troubleshooting and repair skills and preparation for the A+ certification exam. Repeatable = 3 times (GC)

CNET-108  IT Project Management
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
Learn the concepts and skills that build the foundations of project management – project integration, scope, time, cost, quality, human resources, communications, risk, and procurement – within an information technology environment. (GC)

CNET-114  How Technology Works
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: ENGI-114
Accepted For Credit: CSU
This course is intended for students of all disciplines who are interested in how everyday things work. It is an introduction to some of the fundamental science concepts underpinning high technology, emphasizing everyday devices and practical experience, for the development of scientific and computer literacy. Students will experiment with technology to discover principles of science. Concepts such as force, work, energy, power, liquids and gases, heat transfer, electricity, magnetism, electronics, light, materials science, and time are explored through experimentation and observation. Students will experience through class demonstrations and hands-on laboratories the concepts presented by the instructor. Phenomena such as how computers convert data, how iPods transmit sound, how electronic thermometers measure temperature, how solar heating panels capture heat, and how GPSs use microwaves will be explored. Field trips to local tech industry displays are required. (GC)

CNET-115  Introduction to Robotics and Automated Systems
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: ENGI-135
Accepted For Credit: CSU
Students who take this class will understand how scientific innovation can affect their lives either directly or indirectly. The class will teach students the principles of scientific methodology as it is applied to solving problems. The application of this scientific method will be used to navigate an abundance of technical information – to obtain the information, to understand the information, and to determine how to apply it. This course describes the functional hardware and software components of automated systems. The student will experience how scientific principles are applied by building and programming robots. The emphasis is for students to learn science by actually doing science. Repeatable = 3 times (GC)
CNET-116 Introduction to Programming Using Robotics
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Accepted For Credit: CSU
This course is designed to teach the beginning programmer how code programs using robots. Emphasis will be placed on basic Java programming concepts and skills. A “Create” robot from iRobot is used by the student to exercise their new programming skills. The student will have the opportunity to extend the mechanical functionality of the base robot and program sensors they attach to the robot. (GR)

CNET-135 Database Fundamentals I:
Database Architecture and Administration
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Advisory: Knowledge of SQL or knowledge of a programming language
Accepted For Credit: CSU
In this course students learn to startup and shutdown a database, create a database, manage file and database storage, and manage users and their privileges. In addition, students learn to organize the database and to move data into and between databases. Hands-on practice helps to reinforce key concepts and students have an opportunity to troubleshoot real life issues when they are given examples of typical problems encountered when operating an Oracle database. (GC)

CNET-136 Database Fundamentals II:
Database Backup and Recovery
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course addresses backup and recovery techniques and examines various backup, failure, restore, and recovery scenarios for current versions of Oracle databases. Participants utilize multiple strategies and Oracle tools such as Recovery Manager to perform backups and restore and recovery operations. Participants have the opportunity to apply some of the more advanced techniques within a workshop environment. In addition to lecture and hands-on learning, this class addresses answers to frequently asked questions concerning backup and recovery. Repeatable = 2 times (GC)

CNET-137 Introduction to SQL
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: CS-137
Advisory: CS-101A or CNET-101L
Accepted For Credit: CSU
This course covers the concepts of relational databases and powerful SQL. Students are taught to create and maintain database objects and to store, retrieve, and manipulate data. Demonstrations and hands-on practice reinforce the fundamental concepts. (GC)

CNET-138 PL/SQL Programming
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: CS-137 or CNET-137
Accepted For Credit: CSU
Students learn to program in PL/SQL and understand the use of this programming language. Students learn to create PL/SQL blocks of application code that can be used by forms and reports. Students learn to create procedures, functions, packages, to manage dependencies, to manipulate large objects, and built-in packages. Repeatable = 2 times (GC)

CNET-140A Linux Installation and Configuration
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: CNET-150; CS-146 or CNET-146
Accepted For Credit: CSU
This course introduces the functions and features of the Linux operating system including the file system, system services, processes, background processing, scheduling, and security. The course supplies students with the information they need to install and configure Linux on a personal computer. Students will get practical experience in installing, administering, and troubleshooting Linux systems. This course is preparation for Sair Linux and GNU certification. Repeatable = 3 times (GC)

CNET-140B Linux System Administration
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: CNET-150; CS-146 or CNET-146
Advisory: CNET-140A
Accepted For Credit: CSU
This course introduces the fundamental knowledge and skills needed to install, manage, and maintain a Linux computer system. Advanced system management tasks like file system management, patching, rebuilding the kernel, configuring networking interfaces, and system monitoring are performed in the computer lab. Shell programming and the various shells are introduced, and students will learn to write shell script programs to perform various system tasks. This course is preparation for Sair Linux and GNU certification. Repeatable = 3 times (GC)

CNET-141A Linux Apache Web Server Administration
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course is designed to give the student a working knowledge of web pages developed with Hypertext Markup Language (HTML), PHP: Hypertext Preprocessor (PHP), and Java Server Page (JSP). Students will install and configure the Apache Web server, the MySQL database for simple datastore purposes, and the Tomcat servlet container. Repeatable = 3 times (GC)

CNET-142A Linux Networking
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: CNET-150; CS-146 or CNET-146
Advisory: CNET-140A, CNET-140B
Accepted For Credit: CSU
This course introduces the functions and features of the Linux operating system in Network. The course describes the major client and server services that are found in most networked computer systems. Students will implement in the computer lab such services as telnet, ftp, nis, nis, web, mail, dns, samba, and dhcp. This course is preparation for Sair Linux and GNU certification. Repeatable = 3 times (GC)

CNET-142B Linux Security
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: CNET-150; CS-146 or CNET-146
Advisory: CNET-140A, CNET-140B
Accepted For Credit: CSU
Students with Linux experience will gain knowledge and skills in implementing Linux security. This course is preparation for Sair Linux and GNU certification. Repeatable = 3 times (GC)
CNET-145  PHP Programming with MySQL
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: CS-145
Accepted For Credit: CSU
This is a programming class teaching the student how to access a relational database (MySQL) and generate web pages using PHP. The student does not need prior programming experience but general computer knowledge is recommended. (GC)

CNET-146  Introduction to UNIX/Linux
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Cross-referenced Course: CS-146
Advisory: CNET-150
Accepted For Credit: CSU
This lecture-lab course introduces functions of and features of UNIX/Linux operating system, including origin and evolution, hardware and software, graphical user interface, files and file system structure, system services, processes, background processing, scheduling, file security, editors, file sharing, and redirection and piping. Students are introduced to networking and internetworking, internet, shell programming, and a variety of UNIX/Linux tools commonly used for software development and system administration in a UNIX/Linux environment. Repeatable = 3 times (GC)

CNET-147  UNIX/Linux Shell Scripting
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: CS-147
Advisory: CS-102
Accepted For Credit: CSU & UC
This hands-on course introduces a variety of tools and concepts used for working with a UNIX/Linux-based computer system. The course will present the concept of a shell and describe differences between Bourne, Berkeley C, Korn, and Bash shells. Students will be given instruction and assignments in the use of vi, sed, awk and other tools as time and interest permit. Students will write shell script programs to exercise their understanding of tools and concepts. Repeatable = 3 times (GC)

CNET-149  PERL Programming
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: CS-149
Advisory: CS-102
Accepted For Credit: CSU & UC
This course presents the fundamental knowledge and skills needed to solve problems using the PERL language. This language is particularly well suited to manipulating textual data and remains a favorite among UNIX system administrators for automating common administrative tasks and widespread among web masters for writing CGI applications. (GC)

CNET-150  Network Operating Systems
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: CS-101 or CNET-101
Accepted For Credit: CSU
This course provides an in-depth study of Network Operating Systems. The web-based curriculum, sponsored by Hewlett-Packard Company, is an intensive introduction to multi-tasking network operating systems. Characteristics of the Linux, Windows 2000, NT, and XP network operating systems will be discussed. Students will explore a variety of topics including installation procedures, security issues, back up procedures, and remote access. This course provides the foundation for student preparing to take the CompTIA A+ certification exam. Repeatable = 3 times (GC)

CNET-152  Data Communications
36.00 hrs lecture
Units: 2.00
Cross-referenced Course: CS-152
Accepted For Credit: CSU
This course is an introduction to data communications. It will include Internet, e-mail, modems, communication protocol, local area networks, wide area networks, network design, and management. (GC)

CNET-154  Network Technician Training
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Accepted For Credit: CSU
This course prepares students for the knowledge and skills required to successfully install, operate, and troubleshoot a small branch office network. The course includes topics on networking fundamentals; connecting to a WAN; basic security and wireless concepts; routing and switching fundamentals; the TCP/IP and OSI models; IP addressing; WAN technologies; operating and configuring IOS devices; configuring RIPv2, static and default routing; implementing NAT and DHCP; and configuring simple networks. Repeatable = 2 times (GC)

CNET-155A  Network Fundamentals
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: CS-152 or CNET-152; CNET-150
Accepted For Credit: CSU
This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. It uses the OSI and TCP layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. At the end of the course, students build simple LAN topologies by applying basic principles of cabling; performing basic configurations of network devices, including routers and switches; and implementing IP addressing schemes. This course is preparation for the Cisco Certified Networking Associate (CCNA) certification. Repeatable = 3 times (GC)

CNET-155B  Routing Protocols and Concepts
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: CNET-155A
Accepted For Credit: CSU
This course describes the architecture, components, and operation of routers, and explains the principles of routing and routing protocols. Students analyze, configure, verify, and troubleshoot the primary routing protocols RIPv1, RIPv2, EIGRP, and OSPF. By the end of this course, students will be able to recognize and correct common routing issues and problems. This course is preparation for the Cisco Certified Networking Associate (CCNA) certification. Repeatable = 3 times (GC)
CNET-156A LAN Switching and Wireless
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Advisory: CNET-155A
Accepted For Credit: CSU
This course focuses on the technologies and protocols needed to design and implement a converged switched network. Students will learn how to configure a switch for basic functionality and implement virtual LANs, VTP, and Inter-VLAN routing in a converged network. The different implementations of Spanning Tree Protocol in a converged network are presented and students will develop the knowledge and skills necessary to implement a WLAN (wireless LAN) in a small-to-medium network. This course is preparation for the Cisco Certified Networking Associate (CCNA) certification. Repeatable = 3 times (GC)

CNET-156B WAN Design and Support
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Advisory: CNET-155A, CNET-155B, and CNET-156A
Accepted For Credit: CSU
This is the last of four courses designed to introduce students to current and emerging networking technology. The focus of this course is on Wide Area Network (WAN) technologies. This course is preparation for the Cisco Certified Networking Associate (CCNA) certification. Repeatable = 3 times (GC)

CNET-157 TCP/IP and Internetworking
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: CS-157
Prerequisite: CS-152 or CNET-152
Advisory: CS-101 or CNET-101
Accepted For Credit: CSU
This course provides an introduction and overview of TCP/IP technology. Topics include TCP/IP concepts, protocol architecture, and installation techniques. It prepares the student to pass the certification exam, Internetworking Microsoft TCP/IP, to become an MCP/MCSE. Repeatable = 3 times (GR)

CNET-158 Wireless Networks
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: CNET-150
Advisory: CNET-105, CNET-155A
Accepted For Credit: CSU
This introductory course to wireless communication and LANs focuses on the design, planning, implementation, operation and troubleshooting of Wireless LANs. It covers a comprehensive overview of technologies, security, and design best practices with particular emphasis on hands on skills. Repeatable = 3 times (GC)

CNET-160A Microsoft Client Operating Systems
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: CNET-150
Advisory: CS-152 or CNET-152
Accepted For Credit: CSU
This course provides students with the knowledge and skills necessary to set up and support the Windows Client Operating System and prepare for the corresponding Microsoft Certified Professional (MCP), a core requirement on the MCSA and MCSE track. Students will get practical experience installing, administering, and troubleshooting this next-generation desktop environment. Repeatable = 3 times (GC)

CNET-161A Desktop Support I – Supporting Users
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course is designed to provide individuals who are new to Microsoft Windows XP with the knowledge and skills necessary to troubleshoot the basic problems end users will face while running Microsoft Windows XP Professional in an Active Directory network environment or Windows XP Home edition in a workgroup environment. This is an introductory course designed to provide an overview of operating system concepts and how to troubleshoot Windows XP. Repeatable = 3 times (GC)

CNET-161B Desktop Support II – Supporting Applications
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
Students in this class will learn how to support end users who run Microsoft Windows XP Professional in a corporate environment or Microsoft Windows XP Home edition in a home environment. They gain experience using applications that are included with the operating system, such as Microsoft Internet Explorer and Microsoft Outlook Express, as well as the productivity applications used in a corporate environment, such as Microsoft Office applications. Students will learn how to resolve operating system issues by telephone, by connecting to an end user’s system remotely, or by visiting an end user’s desktop. They should have a working knowledge of operating in a workgroup or Active Directory domain environment and how end users are affected by each environment. Repeatable = 3 times (GC)

CNET-162A Microsoft Server Operating Systems
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: CNET-150
Advisory: CNET-160A
Accepted For Credit: CSU
This course provides students with the knowledge and skills necessary to set up and support the Microsoft Windows Server operating system and prepare for the corresponding Microsoft Certified Professional (MCP), a core requirement on the new MCSA and MCSE track. Students will get practical experience installing, administering, and troubleshooting this powerful enterprise server system. Repeatable = 3 times (GC)

CNET-162B Windows Network Infrastructure Administration
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: CNET-150
Advisory: CNET-160A; CNET-162A; CS-152 or CNET-152; CS-157 or CNET-157
Accepted For Credit: CSU
This course prepares students as product support professionals who will be responsible for installing, configuring, managing, and supporting a network infrastructure that uses the Microsoft Windows Server products and prepare for the corresponding Microsoft Certified Professional (MCP) Exam, a core requirement on the MCSE track and elective credit on the MCSA track. Repeatable = 3 times (GC)
### CNET-162C  Planning a Microsoft Windows Networks Infrastructure
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Prerequisite: CS-180 or CNET-150  
Advisory: CS-157 or CNET-157; CS-180A or CNET-160A; CS-180B or CNET-162A; CS-182  
Accepted For Credit: CSU  
This course provides students with the information and skills needed to create a networking services infrastructure design that supports the required network applications in a Microsoft Windows network environment. This course prepares students for the corresponding Microsoft Certified Professional (MCP) exam, a core requirement on the MCSE track. Repeatable = 3 times (GC)

### CNET-164A  Microsoft Directory Services
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Prerequisite: CNET-150  
Advisory: CNET-160A; CNET-162A  
Accepted For Credit: CSU  
This course prepares students to install, configure, and administer Microsoft Windows Active Directory services. The focus is on implementing Group Policy and understanding the Group Policy tasks required to centrally manage users and computers. Students are prepared for the corresponding Microsoft Certified Professional (MCP) exam, a core requirement on the MCSE track and elective credit on the MCSA track. Repeatable = 3 times (GC)

### CNET-164B  Designing Microsoft Windows Directory Services Infrastructure
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Prerequisite: CNET-150  
Advisory: CNET-160A; CNET-162A  
Accepted For Credit: CSU  
This course provides students with the knowledge and skills necessary to design a Microsoft Windows directory services infrastructure in an enterprise network. This course prepares students for the corresponding Microsoft Certified Professional (MCP) Exam, a core requirement on the MCSE track. Repeatable = 3 times (GC)

### CNET-165A  Designing a Secure Microsoft Windows Network
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Prerequisite: CNET-150  
Advisory: CNET-160A; CNET-162A; CNET-162B; CNET-164A  
Accepted For Credit: CSU  
This course provides students with the knowledge and skills necessary to design a security framework for small, medium, and enterprise networks using Microsoft Windows technologies. This course prepares students for the corresponding Microsoft Certified Professional (MCP) Exam 70-298, a core requirement on the MCSE track. Repeatable = 3 times (GC)

### CNET-165B  Microsoft Internet Security and Acceleration Server (ISA)
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Advisory: CNET-160A; CNET-162A; CS-157 or CS-157  
Accepted For Credit: CSU  
Students will gain the knowledge and skills to deploy and manage Microsoft Internet Security and Acceleration (ISA) Server 2000 in an enterprise environment and experience setting up a Web site. This course prepares students for MCP+Internet/MCSE certifications. Repeatable = 3 times (GC)

### CNET-167A  Network Application Administration I – Email (Exchange 2003)
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Advisory: CNET-160A; CNET-162A  
Accepted For Credit: CSU  
This course teaches students the knowledge and skills necessary to install, configure, and administer Microsoft Exchange and also allows them to prepare for the corresponding Microsoft Certified Professional (MCP) exam, an elective requirement on the MCSA and MCSE track. Repeatable = 3 times (GC)

### CNET-168A  Network Application Administration II – Database (SQL)
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Advisory: CNET-160A; CNET-162A  
Accepted For Credit: CSU  
This course introduces students to Microsoft SQL Server System Administration and prepares them to install and/or upgrade to SQL Server. The course also allows students to prepare for the corresponding Microsoft Certified Professional (MCP) exam, an elective requirement on the MCSA and MCSE track. Repeatable = 3 times (GC)

### CNET-170  Network Security
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: CNET-150  
Advisory: CS-146 or CNET-146; CNET-160A, CNET-162A, CNET-140A, or CNET-140B  
Accepted For Credit: CSU  
This course provides an in-depth study of Network Security fundamentals and provides a comprehensive overview of network security. The class is broken down into five sections: General Security Concepts, Communication Security, Infrastructure Security, Cryptography, and Operational/Organizational Security. This course provides the foundation for students preparing to take the CompTIA Security+ certification exam. Repeatable = 3 times (GC)

### CNET-171  Information Security
54.00 hrs lecture  
Units: 3.00  
Prerequisite: CNET-150  
Advisory: CNET-170  
Accepted For Credit: CSU  
This course provides an in-depth study of Information Security fundamentals and provides a comprehensive overview of the field of Information Security. Students will be presented with both the managerial and technical aspects of information security and will cover the knowledge and skills area of the Certified Information Systems Security Professional (CISSP) certification. Repeatable = 3 times (GC)

### CNET-172A  Cisco Network Security I (CCSP)
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
This course focuses on the overall security processes in a network with particular emphasis on hands-on skills in the following areas: security policy design and management; security technologies, products, and solutions; firewall and secure router design, installation, configuration, and maintenance; AAA implementation using routers and firewalls; and securing the network at both layers 2 and 3 of the OSI model. Repeatable = 3 times (GC)
This course focuses on the overall security process in a network with particular emphasis on hands-on skills in the following areas: security policy design and management; security technologies, products, and solutions; firewall and secure router design, installation, configuration, and maintenance; intrusion prevention (IPS) implementation using routers and firewalls; VPN implementation using routers and firewalls. Repeatable = 3 times (GC)

The course offers an overview of the issues related to carrying voice on a data network, the protocols used, and the issues associated with QoS, troubleshooting, security, and design. The course begins with describing the basic technologies used in the Public Switched Telephone System. It then describes the challenges and technologies used to send voice calls over a packet switch network like the Internet. Repeatable = 2 times (GC)

This is the first of four courses leading to the Cisco Certified Network Professional (CCNP) designation. This course introduces students to scaling IP networks. Students learn to use VLSM, private addressing, and NAT optimize IP address utilization. The majority of the course content is related to learning how to implement the RIPv2, EIGRP, OSPF, IS-IS, and BGP routing protocols. In addition, the course details the important techniques used for multicasting, route filtering and route redistribution. This course will prepare students for the Cisco Certified Networking Professional (CCNP) 642-901 exam. Repeatable = 3 times (GC)

This course focuses on the overall security process in a network with particular emphasis on hands-on skills in the following areas: security policy design and management; security technologies, products, and solutions; firewall and secure router design, installation, configuration, and maintenance; intrusion prevention (IPS) implementation using routers and firewalls; VPN implementation using routers and firewalls. Repeatable = 3 times (GC)

This course offers an overview of the issues related to carrying voice on a data network, the protocols used, and the issues associated with QoS, troubleshooting, security, and design. The course begins with describing the basic technologies used in the Public Switched Telephone System. It then describes the challenges and technologies used to send voice calls over a packet switch network like the Internet. Repeatable = 2 times (GC)

This course focuses on the overall security process in a network with particular emphasis on hands-on skills in the following areas: security policy design and management; security technologies, products, and solutions; firewall and secure router design, installation, configuration, and maintenance; intrusion prevention (IPS) implementation using routers and firewalls; VPN implementation using routers and firewalls. Repeatable = 3 times (GC)

This course focuses on the overall security process in a network with particular emphasis on hands-on skills in the following areas: security policy design and management; security technologies, products, and solutions; firewall and secure router design, installation, configuration, and maintenance; intrusion prevention (IPS) implementation using routers and firewalls; VPN implementation using routers and firewalls. Repeatable = 3 times (GC)

Did you know???
Ohlone has more than 330 international students, from approximately 27 different countries. The majority of F-1 Visa-holding international students come from China, followed by Vietnam.
CS-101 Introduction to Computers and Information Technology
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: CNET-101
Advisory: Eligible for ENGL-151B and ENGL-163; concurrent enrollment in CS-101A
Accepted For Credit: CSU & UC
This course is a general introduction to the area of computers and information technology and is designed for all students. This survey course will examine a broad overview of topics including software, hardware, the networking of computer systems, and information technology and surveys of programming languages. The student will explore the implications of this technology with regard to today’s information society. (GC)

CS-102 Introduction to Computer Programming Using C++
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: MATH-152 or MATH-153
Advisory: CS-101 or CNET-101
Accepted For Credit: CSU & UC
This course is an introduction to computer programming. Its primary objective is to teach problem solving using the C++ programming language. Emphasis will be placed on structured procedural programming with an introduction to object-oriented programming. This course is designed primarily for computer science and related transfer majors. (GC)

CS-104A Introduction to .NET Programming
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: MATH-152 or MATH-153; CS-101 or CNET-101
Accepted For Credit: CSU & UC
This course covers the skills necessary to create structured Windows Applications. The class uses C# for design and development. Topics covered will include language syntax, event-driven programming, structured programming, most of the standard tools, and user interface strategies. This course is intended for a general audience with no programming experience. (GC)

Advanced .NET Programming
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: CS-104A
Accepted For Credit: CSU & UC
This is an advanced course for .NET application design and development. Three major areas covered are Graphical User Interface for Windows applications; ADO.NET and SQL for access to databases; and XML and ASP.NET for Web forms and services. The .NET Framework will be used in class for program development. (GC)

Web Services for .NET
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: CS-104A and CS-122
Accepted For Credit: CSU
This course is designed to provide students with the knowledge and skills required to develop Extensible Markup Language (XML) Web Services. The course focuses on using Microsoft Visual Studio .NET and Microsoft ASP.NET to enable students to build, deploy, locate, and consume Web services. Repeatable = 2 times (GC)

Discrete Mathematics for Computers
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: MATH-163
Prerequisite: MATH-188
Advisory: MATH-163A and MATH-101A
Accepted For Credit: CSU & UC
This course is designed for majors in mathematics and computer science. It is the first course for students in discrete mathematics. The main goal of this course is to teach students to think abstractly. This requires that students learn to use logically valid different methods of proof including mathematical induction. Topics include logic, proofs, set relations, recurrence relations, graphs, trees, and combinatorics. Applications include Boolean Algebra, logic circuits, O-Notation, and Automata. (GC)

Object-Oriented Programming Using C++
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: CS-102
Accepted For Credit: CSU & UC
This intermediate-level programming course is intended for those students who already have completed an introductory programming course. It presents a comprehensive study of the C++ programming language and its role in the realm of object-oriented programming. The C++ language supports input/output streams, class constructs, inheritance, polymorphism, function and operator overloading, function and class templates, and exception handling. (GC)

Introduction to Assembly Language Programming
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: CS-102
Accepted For Credit: CSU & UC
This course is an introduction to Assembly Language for Intel-based computers. Topics include numbering systems, architecture, native machine instructions, memory addressing, subroutines, interrupt handling, file I/O, and interaction between assembly language programs, the operating system, and other languages. (GR)

Did you know???
Ohlone is ranked as the fifth best community college in California. Ohlone’s transfer rate of 58% ranks it in the top five of California community colleges.
Source: associatedcontent.com
CS-119  
**Computer Architecture**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-102, CS-113, CS-118  
Accepted For Credit: CSU  
This course will present the logical design of digital computers. The following topics will be covered: Boolean algebra, combinational and sequential circuits, computer arithmetic, memories, integrated circuits, control processors, input/output. No electronic experience is needed. (GR)

CS-122  
**C#.NET Programming**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-101  
Accepted For Credit: CSU  
This course is an introduction to C#.NET Programming. Data types, methods, classes, control structures, loops, arrays, inheritance, exception handling, database connectivity, GUI controls, and Microsoft .NET architecture will be covered in this class. The primary objective is to teach the student how to develop C#.NET programs using Windows. Students will design forms, a shopping cart application, and Web automation by using HTML, XML, and C#.NET programming languages. Debugging will also be covered in class. (GC)

CS-124  
**Programming With Data Structures**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: CS-102  
Accepted For Credit: CSU & UC  
This course involves the study and implementation of data structure programming techniques. The emphasis is on the data structures of stacks, queues, lists, trees and graphs; the use of recursion; and the application of these tools primarily in searching and sorting. Students will implement these concepts by writing numerous programs in an object-oriented language such as C++. (GC)

CS-125  
**Introduction to Programming Using Java**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Prerequisite: MATH-152  
Advisory: CS-101 or CNET-101  
Accepted For Credit: CSU & UC  
This course is an introduction to computer programming. Its primary objective is to teach the fundamentals of programming using the Java programming language. Emphasis will be placed on basic Java programming concepts and skills. This course is designed primarily for computer science and related transfer majors. Repeatable = 2 times (GC)

CS-131  
**Computing Concepts in Biotechnology**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: BIOT-131  
Accepted For Credit: CSU  
This course introduces the basic computing concepts, the most commonly used computer algorithms, and programming languages in biotechnology. (GC)

CS-133  
**Introduction to SAS Programming**  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: BIOT-133  
Accepted For Credit: CSU  
The SAS system has become the international standard for data management, manipulation, storage, retrieval, and statistical analysis. This course offers an introduction to the SAS software by using core elements of the SAS system programming language and procedures. (GR)

CS-133A  
**Data Analysis Using SAS**  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: BIOT-133A  
Prerequisite: CS-133 or BIOT-133  
Accepted For Credit: CSU  
This course focuses on the following key areas: statistical inference, analysis of variance, multiple regression, categorical data analysis, and logistic regression. (GC)

CS-137  
**Introduction to SQL**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: CNET-137  
Advisory: CS-101A  
Accepted For Credit: CSU  
This course covers the concepts of relational databases and powerful SQL. Students are taught to create and maintain database objects and to store, retrieve, and manipulate data. Demonstrations and hands-on practice reinforce the fundamental concepts. (GC)

CS-141B  
**SAS Graphing and ODS**  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Cross-referenced Course: BIOT-141B  
Advisory: CS-133 or BIOT-133  
Accepted For Credit: CSU  
This course introduces SAS/GRAPH and ODS. Learn how to design, construct, and display customized graphs quickly and efficiently. Learn how to create a data set from the results of most SAS procedures and build custom reports. Repeatable = 1 time (GC)

CS-143  
**Advanced SAS Programming**  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: BIOT-143  
Advisory: BIOT-133/CS-133 or some experience in SAS programming  
Accepted For Credit: CSU  
This course provides students with a basic understanding of macro programming and SQL procedure in SAS software. SQL and macro programming can provide more flexibility and power in data management and data analysis. (GR)

CS-145  
**PHP Programming with MySQL**  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: CNET-145  
Accepted For Credit: CSU  
This is a programming class teaching the student how to access a relational database (MySQL) and generate web pages using PHP. The student does not need prior programming experience but general computer knowledge is recommended. (GC)

CS-146  
**Introduction to UNIX/Linux**  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Cross-referenced Course: CNET-146  
Advisory: CNET-150  
Accepted For Credit: CSU  
This lecture-lab course introduces functions of and features of UNIX/Linux operating system, including origin and evolution, hardware and software, graphical user interface, files and file system structure, system services, processes, background processing, scheduling, file security, editors, file sharing, and redirection and piping. Students are introduced to networking and internetworking, internet, shell programming, and a variety of UNIX/Linux tools commonly used for software development and system administration in a UNIX/Linux environment. Repeatable = 3 times (GC)
**CS-147 UNIX/Linux Shell Scripting**
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: CNET-147  
Advisory: CS-102  
Accepted For Credit: CSU & UC  
This hands-on course introduces a variety of tools and concepts used for working with a UNIX/Linux-based computer system. The course will present the concept of a shell and describe differences between Bourne, Berkeley C, Korn, and Bash shells. Students will be given instruction and assignments in the use of vi, sed, awk and other tools as time and interest permit. Students will write shell script programs to exercise their understanding of tools and concepts. Repeatable = 3 times (GC)

**CS-149 PERL Programming**
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: CNET-149  
Advisory: CS-102  
Accepted For Credit: CSU & UC  
This course presents the fundamental knowledge and skills needed to solve problems using the PERL language. This language is particularly well suited to manipulating textual data and remains a favorite among UNIX system administrators for automating common administrative tasks and widespread among web masters for writing CGI applications. (GC)

**CS-151 Internet for Research**
9.00 hrs lecture  
Units: 0.50  
Cross-referenced Course: LS-151  
Advisory: CAOT-153  
Accepted For Credit: CSU  
This course presents instruction in the use of the Internet as an alternate to traditional college-level learning resources. It will teach skills and strategies for finding and retrieving information on the Internet. (CR)

**CS-152 Data Communications**
36.00 hrs lecture  
Units: 2.00  
Cross-referenced Course: CNET-152  
Accepted For Credit: CSU  
This course is an introduction to data communications. It will include Internet, e-mail, modems, communication protocol, local area networks, wide area networks, network design, and management. (GC)

**CS-157 TCP/IP and Internetworking**
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: CNET-157  
Prerequisite: CS-152 or CNET-152  
Advisory: CS-101 or CNET-101  
Accepted For Credit: CSU  
This course provides an introduction and overview of TCP/IP technology. Topics include TCP/IP concepts, protocol architecture, and installation techniques. The course prepares the student to pass the certification exam, Internetworking Microsoft TCP/IP, to become an MCP/MCSE. Repeatable = 3 times (GR)

**CS-160A Computer Graphics I**
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ART-160A, BA-160A, GA-160A  
Accepted For Credit: CSU & UC  
This course is an introduction to microcomputers and to the creation of computer-generated graphics. This course examines the variety of software/hardware tools and techniques available for the production of computer-made imagery. The emphasis is on hard-copy production using printers, plotters, and other reproduction methods. This course also covers design principles, business graphics, and elementary programming principles. Repeatable = 3 times (GC)

**CS-160B Computer Graphics II**
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ART-160B, BA-160B, GA-160B  
Prerequisite: GA-160A, ART-160A, BA-160, or CS-160A  
Accepted For Credit: CSU  
This course is a continuation of CS-160A. The emphasis in this course is on developing intermediate and advanced skills needed to operate a computer graphics work station. The students complete projects of their choice using more complex Paint and CAD software, printers, and plotters. Repeatable = 3 times (GC)

**CS-162 XHTML**
36.00 hrs lecture, 108.00 hrs lab  
Units: 4.00  
Cross-referenced Course: MM-162  
Advisory: CS-101, CNET-101, or CS-101A  
Accepted For Credit: CSU  
Students will use XHTML to create multimedia Web pages using hypertext links, tables, frames, forms, cascading style sheets (CSS), JavaScript, and JavaScript objects and events. Other topics include Dynamic Hypertext Markup Language (DHTML) techniques and working with eXtensible Markup Language (XML) and eXtensible Stylesheet Language (XSL). Repeatable = 1 time (GC)

**CS-169A Digital Photography**
18.00 hrs lecture, 126.00 hrs lab  
Units: 2.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This photography course on the Macintosh computer is a personal training class based on the software application Adobe Photoshop. Students will learn to navigate the application, build files, use several tools for manipulating images, and ultimately gain command of reproducing photographic images using alpha channels, layers, and filters. Repeatable = 1 time (GR)

**CS-169B Intermediate Digital Photography**
18.00 hrs lecture, 126.00 hrs lab  
Units: 2.00  
Prerequisite: ART-139A, CS/GA-169A, or approval by portfolio review  
Accepted For Credit: CSU  
This is an intermediate course on the Macintosh computer utilizing two software applications, namely Adobe Photoshop and Apple QuickTime VR Authoring Studio. Students will learn to develop QuickTime VR objects, panoramas, and scenes for use with desktop publishing, print publishing, or Web site development. Students will need a camera for capturing images to be used in projects. Repeatable = 1 time (GR)
**CS-170**  
Java Programming  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-102 and CS-125  
Accepted For Credit: CSU & UC  
This intermediate-level programming course is intended for those students who already have completed an introductory programming course. It presents a comprehensive study of the object-oriented programming in Java. Fundamentals of encapsulation, inheritance, polymorphism, abstraction, method overloading and overriding, exception handling, GUI components, event handling, multimedia programming, and input/output streams are introduced. Repeatable = 2 times (GC)

**CS-172**  
Servlets and JSP  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-170  
This is an Internet programming and application course using Java technology, including Servlet, JSP, Session tracking, JavaBeans, and JDBC. Repeatable = 2 times (GC)

**CS-173**  
Java EE and EJB  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-170  
This course is an introduction to Java EE and EJB (Enterprise Java Beans). Students will design and develop the business applications and Web Services using Java EE and EJB. Repeatable = 2 times (GC)

**CS-175**  
From JavaScript to AJAX  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: CS-101  
Accepted For Credit: CSU  
This is an introductory to intermediate course for the scripting language JavaScript, the glue between Web interactivity tools. The topics span from basic programming concepts to specific JavaScript syntax and methods used to manipulate information and code, which allow web forms validation, rewriting of HTML pages on the fly, and access to XML and other server information using AJAX. (GC)

**CS-176**  
Introduction to PERL CGI Programming Development  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU  
This course is an introduction to CGI (Common Gateway Interface) programming with PERL. The primary objective is to teach how to create interactive Web pages using CGI. Students will learn the fundamental concepts of CGI, the basics of design and integration with HTML, and sufficient PERL to be able to create CGI programs. (GC)

**CS-177**  
E-Commerce  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
This course is designed to provide complete coverage of key business and technology elements of electronic commerce with emphasis on both the theory and practices of conducting business over the Internet. Students will integrate business and technology elements by developing and administering their own E-Commerce Web site. Repeatable = 1 time (GC)

**CS-178**  
XML  
54.00 hrs lecture  
Units: 3.00  
Advisory: CS-170  
Accepted For Credit: CSU  
This course is designed to teach students the technologies of XML (the eXtensible Markup Language), XSL (eXtensible Style Language), and DSSSL (Document Style Symantics and Specification Language). Repeatable = 1 time (GC)

**CS-195A1**  
Work Experience Education – Vocational  
75.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

**CS-195A2**  
Work Experience Education – Vocational  
150.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

**CS-195A3**  
Work Experience Education – Vocational  
225.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

**CS-195A4**  
Work Experience Education – Vocational  
300.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

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**CONSUMER FAMILY SCIENCES**

Division: Health Sciences and Environmental Studies

**CFS-104A**  
Current Issues in Child Nutrition  
36.00 hrs lecture  
Units: 2.00  
Advisory: Eligible for ENGL-151B  
The role and requirements of nutrients for children are reviewed. Current issues regarding nutrition and feeding of children are discussed. Legislation regarding feeding of children is updated. The course is recommended for school food service, child care, WIC personnel, and parents. (GC)
CFS-106  Food: The Chemicals We Eat
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course introduces non-majors to the basics of chemicals present in food. A series of topics are discussed, which will integrate and elucidate the components of food by making use of the chemical, physical, and biological sciences. Beginning with the introduction to food as a chemical, students will learn about different kinds of foods and their properties. Students will also learn about food additives, coloring and flavoring agents. The Government's role in assuring food quality will be examined. At the end of the course students will be able to recognize the information that is on a food label and be able to apply this knowledge to their well-being. (GR)

CFS-108  Nutrition and Fitness
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course reviews in depth the relationship between the nutrients and muscular performance. Food sources and meal plans for optimum performance, fitness, weight maintenance, weight loss, and weight gain are explored. The need for supplements and popular diets are evaluated. (GC)

CFS-109  Nutrition
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
This course studies the concepts and applications of nutrition in health and disease. Essential nutrients and their functions, food sources, requirements, digestion, absorption, and metabolism are covered. This course is recommended for pre-nursing and other health majors. (GC)

CFS-195A1  Work Experience Education – Vocational
75.00 hrs lab
Units: 1.00
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

CFS-195A2  Work Experience Education – Vocational
150.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CFS-195A3  Work Experience Education – Vocational
225.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

CFS-195A4  Work Experience Education – Vocational
300.00 hrs lab
Units: 4.00
Accepted For Credit: CSU
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

DEAF-116A  ESL Vocabulary I in American Sign Language
36.00 hrs lecture
Units: 2.00
Advisory: Basic ability to communicate in ASL
This course is the first of two basic vocabulary courses designed for students who are new to the United States or who wish to build their English vocabulary skills. Students will strengthen their understanding of words through thematic reading and interactive exercises; by studying word parts, synonyms, and antonyms; and by analyzing their meanings in various written contexts. Taught in ASL. Not applicable to associate degree. Repeatable = 3 times (GC)

DEAF-116B  ESL Vocabulary II in American Sign Language
36.00 hrs lecture
Units: 2.00
Advisory: Basic ability to communicate in ASL
This course is the second of two basic vocabulary courses designed for students who are new to the United States or who wish to build their English vocabulary skills. Students will strengthen their understanding of words through thematic reading and interactive exercises, by studying word parts, synonyms and antonyms, and by analyzing their meanings in various written contexts. Taught in ASL. Not applicable to associate degree. Repeatable = 3 times (GC)

DEAF-118A  ESL Writing I in American Sign Language
54.00 hrs lecture
Units: 3.00
Advisory: Basic ability to communicate in ASL
This course is the first course of a two-semester ESL writing program for Deaf students. This course introduces basic writing skills, emphasizing the structure of English sentences and paragraph development. It is designed for students whose native language is not English. Taught in ASL. Not applicable to associate degree. Repeatable = 3 times (GC)

DEAF-118B  ESL Writing II in American Sign Language
54.00 hrs lecture
Units: 3.00
Advisory: Basic ability to communicate in ASL
This course is the second course of a two-semester ESL writing program for Deaf students. This course further develops basic writing skills, emphasizing the structure of English sentences and paragraph and essay development. Designed for students whose native language is not English. Taught in ASL. Not applicable to associate degree. Repeatable = 3 times (GC)
DEAF-119A ESL Reading I in American Sign Language
54.00 hrs lecture
Units: 3.00
Advisory: Basic ability to communicate in ASL
This course is the first course of a two-semester ESL reading program for Deaf students. This course is designed for students who are new to the United States or who wish to begin a basic study of English reading at a beginning ESL level, with an emphasis on fluency and vocabulary development. Taught in ASL. Not applicable to associate degree. Repeatable = 3 times (GC)

DEAF-119B ESL Reading II in American Sign Language
54.00 hrs lecture
Units: 3.00
Advisory: Basic ability to communicate in ASL
This course is the second course of a two-semester ESL reading program for Deaf students. This course is designed for students who are new to the United States or who wish to continue a basic study of English reading at a beginning ESL level, with an emphasis on fluency and vocabulary development. Taught in ASL. Not applicable to associate degree. Repeatable = 3 times (GC)

DEAF-120A Basic Grammar I
54.00 hrs lecture
Units: 3.00
Advisory: Fluency in ASL
This course is designed for students who wish to develop their English grammar skills through exposure and practice. Students will have opportunities to learn basic grammar rules through interactive exercises and studying sentence parts and writing sentences. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-120B Basic Grammar II
54.00 hrs lecture
Units: 3.00
Advisory: DEAF-120A
This course is designed for students who wish to develop their English grammar skills through exposure and practice. Students will have opportunities to learn basic grammar rules through interactive exercises and studying sentence parts. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-121A Intermediate Grammar I
54.00 hrs lecture
Units: 3.00
Advisory: DEAF-120A and DEAF-120B
This course is designed for Deaf/Hard of Hearing students who wish to further develop their grammar skills through practice and application. Students will have opportunities to learn grammar rules through interactive exercises and studying sentence parts and writing sentences. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-121B Intermediate Grammar II
54.00 hrs lecture
Units: 3.00
Advisory: DEAF-121A
This course is designed for Deaf/Hard of Hearing students who wish to continue to develop their grammar skills through practice and application. They will have opportunities to apply grammar rules through interactive exercises, studying sentence parts, and writing sentences. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-130A Literacy I
54.00 hrs lecture
Units: 3.00
Advisory: Fluency in ASL
The focus of this course is on development of practical reading and practical language skills in applied settings. This course is the first of a two-semester English Literacy program for Deaf and Hard Of Hearing students. The emphasis is on increased practical reading skills and vocabulary. Taught in ASL. Not applicable to associate degree. Repeatable = 5 times (GC)

DEAF-130B Literacy II
54.00 hrs lecture
Units: 3.00
Advisory: DEAF-130A; fluency in ASL
The focus of this course is on development of practical reading and practical language skills in applied settings. This course is the second semester of a two-semester English Literacy program for Deaf and Hard of Hearing students. This course is taught in ASL only. The emphasis is on increased practical reading skills and vocabulary. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GC)

DEAF-131A Intermediate Literacy I
54.00 hrs lecture
Units: 3.00
Advisory: DEAF-130A/B; DEAF-120A/B
This course is the first of two courses designed for Deaf/Hard of Hearing students who wish to increase vocabulary and expand knowledge about various topics related to the world in which we live. The course will also promote practice in reading. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-131B Intermediate Literacy II
54.00 hrs lecture
Units: 3.00
Advisory: DEAF-130A/B; DEAF-120A/B
This course is the second of two courses designed for Deaf and Hard of Hearing students who wish to further increase vocabulary and knowledge about various topics related to real world. The course will also promote practice in reading. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-140A Lifeskills Mathematics I
36.00 hrs lecture
Units: 2.00
Advisory: ASL Fluency
This course provides students with real world application of basic math skills in the areas of money management, banking, and consumerism. This is the first part of a two-semester course. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)
DEAF-140B Lifeskills Mathematics II
36.00 hrs lecture
Units: 2.00
Advisory: DEAF-140A; fluency in ASL
This course provides students with real world application of basic math skills in the areas of money management, banking, consumerism, and employment. This is the second part of a two-semester course. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-141A Workplace Communication I
54.00 hrs lecture
Units: 3.00
Advisory: ASL fluency
This course focuses on workplace communication skills for employment preparation. Emphasis will be on both written and signed communication with hearing co-workers and supervisors. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-141B Workplace Communication II
54.00 hrs lecture
Units: 3.00
Advisory: DEAF-141A; ASL fluency
This course is taught in continuation of workplace communication skills for employment preparation. Emphasis will be on both written and signed communication with hearing co-workers and supervisors. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-143 Def Vocational Awareness
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: DEAF-145A and/or DEAF-145B
This course provides deaf students opportunities to visit and tour a variety of Bay Area businesses. Students will learn to contact employers by using an interpreter on the phone to set up the field trips. While touring the work site students will apply practical informational interviewing skills using an interpreter for communication purposes to gather facts about work requirements, job duties, application procedures, and employment protocol. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-145B Job Seeking Strategies for Deaf Students
54.00 hrs lecture
Units: 3.00
Advisory: ASL Fluency
This course allows student job seekers to evaluate their own interests, skills, and aptitudes and relate them to employment. Students will develop strategies and practice specific skills necessary for a successful job hunt to result in gainful employment. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-146 Work Experience Seminar
36.00 hrs lecture
Units: 2.00
Advisory: DEAF-195; ASL fluency
Designed for students to get training while having their work experience class at Ohlone College. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-147A Citizenship: Introduction
54.00 hrs lecture
Units: 3.00
This course is the first of four courses designed for Deaf/Hard of Hearing students who need to develop pre-employment readiness. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-147B Citizenship: One's Role
54.00 hrs lecture
Units: 3.00
Prerequisite: DEAF-147A
This course is the second of four courses in the Direct Employment Program designed for Deaf/Hard of Hearing students who need to develop next level of skills in job readiness. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-148 Community Service
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
This course will focus on the concept and experience of community service and provide hands-on-community-based learning experience. The course will introduce the definition and importance of community service and volunteerism, and their importance in career development, and will address safe practices in new environments and using tools. Performance expectations will be applied to community service participation. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-157A English Composition Techniques
54.00 hrs lecture
Units: 3.00
Advisory: Fluency in ASL
This course is the first of two courses with an emphasis on refinement of English composition skills as applied through paragraph and essay development. Students are exposed to a variety of well-written essays and guided through an analysis of structure, content, and style. Taught in ASL only. Not applicable to associate degree. Repeatable = 2 times (GR)

DEAF-157B Principles of Composition
54.00 hrs lecture
Units: 3.00
Advisory: Fluency in ASL
This course is the second of two courses with a strong emphasis on refinement of English composition skills as applied through paragraph and essay development. Students are exposed to a variety of well-written paragraphs and essays and guided through an analysis of structure, content, and style. Taught in ASL only. Not applicable to associate degree. Repeatable = 2 times (GR)

DEAF-159A Reading Strategies
54.00 hrs lecture
Units: 3.00
Prerequisite: Fluency in ASL
This course is the first of two courses with an emphasis on introduction to reading and study techniques. Students learn various skills to analyze a variety of readings including essays and news articles. This course is designed to prepare students for more extensive courses in reading. Taught in ASL only. Not applicable to associate degree. Repeatable = 2 times (GR)

DEAF-159B Reading Techniques
54.00 hrs lecture
Units: 3.00
Advisory: Fluency in ASL
This course is the second of two courses with an emphasis on introduction to reading and studying techniques. Students learn various skills to analyze a variety of readings including essays and news articles. This course is designed to prepare students for more extensive courses in reading. Taught in ASL only. Not applicable to associate degree. Repeatable = 2 times (GR)
DEAF-160A  Personal and Social Awareness I  
36.00 hrs lecture  
Units: 2.00  
Advisory: ASL Fluency  
This is a practical course designed to explore issues relevant to Deaf college students. Group activities will focus on personal challenge and growth. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-160B  Personal and Social Awareness II  
36.00 hrs lecture  
Units: 2.00  
Prerequisite: Deaf students only; DEAF-160A  
This is a continuation of DEAF-160A and is designed to explore issues relevant to Deaf college students. Group activities will focus on personal challenge and growth. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-161  Introduction to the Deaf Community  
54.00 hrs lecture  
Units: 3.00  
Advisory: ASL Fluency  
This is a basic course on the culture of American Deaf people. Cultural norms of Deaf people are examined and current issues within the Deaf community are discussed. Community resources are presented. Taught in ASL. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-165  Study Techniques: MS Word, MS Excel, and MS Access  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Prerequisite: Fluency in ASL  
Introductory use of Microsoft Word, Microsoft Excel, and Microsoft Access to prepare students for college-level work. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-166  Study Techniques: Introduction to Multimedia Photoshop, MS PowerPoint, and MS Publisher  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: Fluency in ASL, DEAF-165  
Introductory course in the use of Photoshop, Microsoft PowerPoint, MS Publisher, and use of digital camera to prepare students for college-level work. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-175A  IUPP Grammar I  
54.00 hrs lecture  
Units: 3.00  
This course is designed for students who already have an intermediate to advanced knowledge of English sentence structure but who need further refinement of grammar and other language skills. Taught in ASL. Not applicable to associate degree. Repeatable = 3 times (GC)

DEAF-175B  IUPP Grammar II  
54.00 hrs lecture  
Units: 3.00  
This course is designed for students who have successfully completed DEAF-175A and wish to continue to strengthen and refine their grammar skills. Taught in ASL only. Not applicable to associate degree. Repeatable = 3 times (GC)

DEAF-176A  Academic Vocabulary I  
36.00 hrs lecture  
Units: 2.00  
Advisory: ASL fluency  
This course is the first of two courses designed for students who wish to improve their vocabulary through exposure to words found in academic coursework. Students will strengthen their understanding of words through thematic reading and interactive exercises, by studying word parts, synonyms, and analogies, and by analyzing their meanings in various written contexts. Taught in ASL only. Not applicable to associate degree. Repeatable = 3 times (GR)

DEAF-176B  Academic Vocabulary II  
36.00 hrs lecture  
Units: 2.00  
Advisory: ASL fluency  
This course is the second of two courses designed for students who wish to improve their vocabulary through exposure to words found in academic coursework. Students will strengthen their understanding of words through thematic reading and interactive exercises, by studying word parts, synonyms and antonyms, and analogies, and by analyzing their meanings in various written contexts. Taught in ASL only. Not applicable to associate degree. Repeatable = 3 times (GR)

DEAF-188A  Intensive University Preparation – Academic Writing I  
72.00 hrs lecture  
Units: 4.00  
Advisory: ASL fluency  
This course is the first course in a three-semester program in writing with an emphasis on composition, critical reading skills, and the development of natural English expression. This course reviews the fundamentals of paragraph development and focuses on reading critically and writing well-developed and well-organized paragraphs and essays. The course is designed to prepare students who are fluent in ASL for college-level English composition and academic course work. Taught in ASL only. Not applicable to associate degree. Repeatable = 3 times (GR)

DEAF-188B  Intensive University Preparation – Academic Writing II  
72.00 hrs lecture  
Units: 4.00  
Advisory: ASL fluency  
This course is the second course in a three-semester program in writing with an emphasis on composition, critical reading skills, and the development of natural English expression. This course reviews the fundamentals of paragraph development and focuses on reading critically and writing well-developed and well-organized paragraphs and essays. The course is designed to prepare students who are fluent in ASL for college-level English composition and academic course work. Taught in ASL only. Not applicable to associate degree. Repeatable = 3 times (GR)

DEAF-188C  Intensive University Preparation – Academic Writing III  
72.00 hrs lecture  
Units: 4.00  
Prerequisite: ASL fluency  
This course is the third course in a three-semester program in writing with an emphasis on composition, critical reading skills, and the development of natural English expression. This course reviews the fundamentals of essay development and focuses on reading critically and writing summaries and well-developed, well-organized essays. The course is designed to prepare students who are fluent in ASL for college-level English composition and academic course work. Taught in ASL only. Not applicable to associate degree. Repeatable = 3 times (GC)
DEAF-189A  Intensive University Preparation – Academic Reading I
54.00 hrs lecture
Units: 3.00
Advisory: ASL fluency
This course is the first course of a three-semester academic reading program. This course provides an introduction to reading and study techniques. Students learn to analyze, annotate, and summarize a variety of readings including essays, news articles, and textbook chapters. The course is designed to prepare students for college-level course work. Taught in ASL only. Not applicable to associate degree. Repeatable = 3 times (GR)

DEAF-189B  Intensive University Preparation – Academic Reading II
54.00 hrs lecture
Units: 3.00
Advisory: ASL Fluency
DEAF-189B is the second course of a three-semester reading program. This course focuses on improvement of reading and study skills. Students analyze, annotate, and summarize readings of greater length and complexity. The course is designed to prepare students for college-level course work. Taught in ASL only. Not applicable to associate degree. Repeatable = 3 times (GR)

DEAF-189C  Intensive College Preparation – Academic Reading III
54.00 hrs lecture
Units: 3.00
Advisory: ASL fluency
DEAF-189C is the third course of a three-semester reading program. This course focuses on strengthening of reading and research skills. Students analyze, annotate, and summarize readings of increasing length and complexity. The course is designed to prepare students for college-level course work. Taught in ASL only. Not applicable to associate degree. Repeatable = 3 times (GR)

DEAF-191  Human Potential Seminar
36.00 hrs lecture
Units: 2.00
Prerequisite: Limited to Deaf students only
This practical course is specifically designed to meet the personal growth needs of Deaf students finding their place as Deaf adults in a hearing society. Emphasis will be on issues encountered in everyday life. Group and individual activities will encourage self-exploration and awareness, values clarification, conscious choice, decision making, and interpersonal communication. Taught in ASL only. Not applicable to associate degree. Repeatable = 5 times (GR)

DEAF-195A2  Work Experience Education – Vocational
150.00 hrs lab
Units: 2.00
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. Repeatable = 5 times (GC)

DEAF-195A3  Work Experience Education – Vocational
225.00 hrs lab
Units: 3.00
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC) Repeatable = 5 times (GC)

DEAF-195A4  Work Experience Education – Vocational
300.00 hrs lab
Units: 4.00
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC) Repeatable = 5 times (GC)

DEAF-311  Introduction to American Deaf Culture
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
Accepted For Credit: CSU; Gallaudet
Introduction to the social, cultural, and sociolinguistic characteristics of Deaf people. Taught in ASL. Repeatable = 5 times (GC)

DEAF-312  Linguistics of ASL
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
Accepted For Credit: CSU
This is an introduction to the language of American Deaf people. Grammar, morphology, phonology, and semantics of American Sign Language are covered. Taught in ASL. Repeatable = 5 times (GR)

DEAF-330  Educating the Deaf
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
Accepted For Credit: CSU
This course has been designed to provide the student with a general orientation to Deaf/Deaf education. The course provides an overview of the historical, philosophical, and social aspects of Deaf education. The course analyzes the impact of Deaf education on hearing families. In addition, it provides an orientation to problems, issues, research, legislation, and current trends in the field of education of the Deaf. Repeatable = 5 times (GR)

DEAF-331  Counseling the Deaf
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
Accepted For Credit: CSU
This course is designed to provide students with skills that are needed to work with deaf students in a school setting. Taught in ASL. Repeatable = 5 times (GR)

DEAF-332  Development of the Deaf Child
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163; ASL fluency
Accepted For Credit: CSU
This course provides students with an overview of child development theories as they relate to the Deaf experience. Taught in ASL. Repeatable = 5 times (GR)

DEAF-343  Field Work in Deaf Education
162.00 hrs lab
Units: 3.00
Prerequisite: Enrollment in the Deaf Education Certification Program
Advisory: Eligible for ENGL-151B, ENGL-163
This course is designed to provide Deaf Education students with hands-on experience in a deaf school setting. A weekly seminar is included for group discussion of practicum experience. Taught in ASL. Repeatable = 5 times (GR)

DEAF-365  Supervised Tutoring
180.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Not applicable to associate degree. Repeatable = 5 times (NG)


**EARLY CHILDHOOD STUDIES**

Division: Humanities, Social Sciences, and Mathematics

**ECS-195A**

**Work Experience Education – Vocational**

- **Units:** 1.00
- **Accepted For Credit:** CSU
- Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

**ECS-195B**

**Work Experience Education – Vocational**

- **Units:** 2.00
- **Accepted For Credit:** CSU
- Work experience education for students employed in jobs directly related to a major. Units are based on hours worked. (GC)

**ECS-195C**

**Work Experience Education – Vocational**

- **Units:** 3.00
- **Accepted For Credit:** CSU
- Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

**ECS-195D**

**Work Experience Education – Vocational**

- **Units:** 4.00
- **Accepted For Credit:** CSU
- Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

**ECS-300**

**Principles and Practices of Teaching Young Children**

- **Units:** 4.00
- **Accepted For Credit:** CSU
- An examination of the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all children. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity. (GR)

**ECS-301**

**Childhood Growth and Development**

- **Units:** 3.00
- **Accepted For Credit:** CSU & UC
- This course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences, and analyze characteristics of development at various stages. (GR)

**ECS-302**

**Introduction to Curriculum**

- **Units:** 4.00
- **Accepted For Credit:** CSU
- This course is an overview of the application of principles of human growth and development to individual issues in early childhood educational programs including appropriate play, aesthetic and learning experiences including program content, use of materials and equipment, planning and guidance of assessment and documentation. (GR)

**ECS-303**

**Child, Family, and Community**

- **Units:** 3.00
- **Accepted For Credit:** CSU
- An examination of the developing child in a societal context focusing on the interrelationship of family, school and community and emphasizing historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. (GR)

**ECS-304**

**Observation and Assessment of Children**

- **Units:** 4.00
- **Accepted For Credit:** CSU
- This course focuses on the appropriate use of assessment and observation strategies to document development, growth, play and learning to join with families and professionals in promoting children’s success. Recording strategies, rating systems, portfolios, and multiple assessment tools are explored. (GR)

**ECS-305**

**Health Safety and Nutrition**

- **Units:** 3.00
- **Accepted For Credit:** CSU
- Introduction to the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development for all children. (GR)

**ECS-306**

**Guidance and Discipline of Young Children**

- **Units:** 3.00
- **Accepted For Credit:** CSU
- The principles of positive guidance and discipline based on contemporary research and child development will be discussed in this course. Application of the principles of effective communication, understanding child development and behavior, appropriate limits and rules, structuring problem solving, and consequences will be discussed. This course is appropriate for teachers and parents. (GC)
ECS-307A4  Practicum – Field Experience
36.00 hrs lecture, 108.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-101A; ECS-300; ECS-302
A demonstration of developmentally appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children. (GR)

ECS-307B4  Intermediate Practicum – Field Work
36.00 hrs lecture, 108.00 hrs lab
Units: 4.00
Prerequisite: ECS-307A3, ECS307A4, or ECS-307A5
Advisory: Eligible for ENGL-101A; ECS-300
This course continues direct experience working with and observing young children. Students will plan, implement, and evaluate program components and activities for young children. Students must complete this course in the Ohlone Child Lab. Students will perform the competencies of a teacher. (GR)

ECS-307C4  Practicum – Field Experience
Children in the Child Lab
36.00 hrs lecture, 108.00 hrs lab
Units: 4.00
Prerequisite: ECS-307A4; ECS-307B4
Advisory: ENGL-101A; ECS-300
This course offers direct experience working with and observing young children. Students will be trained in the planning, implementing, and evaluating of program components and activities for young children. Students must complete this course in the Ohlone Child Care Lab. Student will perform the competencies of a Head Teacher/Site Director. (GR)

ECS-308  Administration of Programs for Young Children
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A; ECS-300, ECS-301, ECS-302
Accepted For Credit: CSU
This course covers principles in organization and management of preschools and childcare centers. Subject matter includes program planning, organization, budgeting, personnel, records, relationships with community resources, regulatory agencies, and working with parents. The legal requirements for operating programs for young children in California provide a framework for course work. (GR)

ECS-309  Teaching in a Diverse Society
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
Examination of the development of social identities in diverse societies including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling. (GR)

ECS-310  Music and Movement Curriculum for Young Children
54.00 hrs lecture
Units: 3.00
Advisory: ECS-300, ECS-301, ECS-302, ENGL-101A
Accepted For Credit: CSU
This course provides a survey of music, materials, and movement activities for young children (2-10 years). Students learn effective techniques for using songs, rhythm, instruments, creative dance, and games. The use of a variety of musical media and props will be demonstrated. Repeatable = 1 time (GR)

ECS-311  Art for the Young Child
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A; ECS-300, ECS 301, ECS-302
Accepted For Credit: CSU
This course includes practice in using age-appropriate methods with commonly available creative art media for children of various developmental stages, infancy through eight years old. Students learn to make, collect, and use various materials to develop an understanding of how art expression and skills change as children mature. Evaluation and appreciation of art activities as opportunities for self-expression and sensory stimulation will be explored. Repeatable = 1 time (GR)

ECS-312  The Development of Literacy in Early Childhood Education
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
This course examines how children gain oral language and listening skills leading to the development of writing and reading. It will include curriculum development for an emergent literacy environment. (GR)

ECS-313  Science and Math Curriculum for Young Children
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A and ECS-301
Accepted For Credit: CSU
This course provides guidelines for preparing math and science curriculum for the young child. Math and science interrelationships will be explored, as well as gender differences, current research, and the use of hands-on approach. Repeatable = 1 time (GR)

ECS-314  Literature for the Young Child
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A and ECS-312
Accepted For Credit: CSU
This course provides an in-depth experience with literature for children ages 0-8. The course introduces students to the development of reading in young children, their interests, diversity and reading skill levels of young children. Content to be covered includes the historical development of children’s literature, effective techniques used to introduce literature, books, poetry, other reading media, story telling and reading to children. Students will learn how to extend literature into other curriculum areas. (GR)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Prerequisite(s)</th>
<th>Advisory</th>
<th>Acceptance</th>
<th>Repeatable Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECS-316</td>
<td>Children with Special Needs in Programs for Young Children</td>
<td>3.00</td>
<td>54.00</td>
<td></td>
<td>ECS-300, ECS-301</td>
<td>Eligible for ENGL-101A</td>
<td>Accepted For Credit: CSU</td>
<td>1 time (GR)</td>
</tr>
<tr>
<td>ECS-317</td>
<td>Infant and Toddler Development and Care</td>
<td>3.00</td>
<td>54.00</td>
<td></td>
<td>ECS-300, ECS-301</td>
<td>Eligible for ENGL-151B and ENGL-163</td>
<td>Accepted For Credit: CSU</td>
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<tr>
<td>ECS-320</td>
<td>Introduction to Family Child Care Homes</td>
<td>1.00</td>
<td>18.00</td>
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<tr>
<td>ECS-321</td>
<td>Supervision in Early Childhood Programs</td>
<td>3.00</td>
<td>54.00</td>
<td></td>
<td>ECS-300, ECS-301, and ECS-303</td>
<td>Eligible for ENGL-101A</td>
<td>Accepted For Credit: CSU</td>
<td>(GC)</td>
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<tr>
<td>ECS-322</td>
<td>Mentoring and Supervision in Early Childhood Programs</td>
<td>2.00</td>
<td>36.00</td>
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<td>ECS-302, ECS-308</td>
<td>Eligible for ENGL-101A</td>
<td>Accepted For Credit: CSU</td>
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<tr>
<td>ECS-323</td>
<td>Advanced Training in Infant-Toddler Care</td>
<td>3.00</td>
<td>54.00</td>
<td></td>
<td>ECS-300, ECS-301, ECS-317</td>
<td>Eligible for ENGL-151B</td>
<td>Accepted For Credit: CSU</td>
<td>1 time (GR)</td>
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<tr>
<td>ECS-324</td>
<td>Parenting</td>
<td>3.00</td>
<td>54.00</td>
<td></td>
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<td>Eligible for ENGL-151B</td>
<td>Accepted For Credit: CSU</td>
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<tr>
<td>ECS-325A</td>
<td>Workshop Series for Parents and Teachers</td>
<td>2.00</td>
<td>36.00</td>
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<td>Accepted For Credit: CSU</td>
<td>Repeatable = 3 times or 4 units (CR)</td>
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<tr>
<td>ECS-326</td>
<td>School Age Child Development</td>
<td>3.00</td>
<td>54.00</td>
<td></td>
<td></td>
<td>Eligible for ENGL-101A</td>
<td>Accepted For Credit: CSU</td>
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<tr>
<td>ECS-327</td>
<td>Curriculum for the School Age Child</td>
<td>2.00</td>
<td>36.00</td>
<td></td>
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<td>Eligible for ENGL-101A</td>
<td>Accepted For Credit: CSU</td>
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<tr>
<td>ECS-328</td>
<td>Early Childhood Director’s Seminar</td>
<td>2.00</td>
<td>36.00</td>
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<td>Eligible for ENGL-101A</td>
<td>Accepted For Credit: CSU</td>
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<tr>
<td>ECS-329</td>
<td>Second Helping for Family Childcare Providers</td>
<td>2.00</td>
<td>36.00</td>
<td></td>
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<td>Eligible for ENGL-101A</td>
<td>Accepted For Credit: CSU</td>
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</tr>
</tbody>
</table>
EDUCATION

Division: Humanities, Social Sciences, and Mathematics

EDUC-101 Exploring Education
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-151B
Accepted For Credit: CSU & UC
This course will introduce students to the field of teaching. The class will include reports and discussions related to direct observations of pre-school, elementary, secondary, higher education, and non-school educational settings. Changing issues in education and their implications for future teaching practices and theories will be examined. (GR)

EDUC-105 Math and Science Future Teacher Seminar
54.00 hrs lecture
Units: 3.00
Advisory: MATH-151 and ENGL-101A
Accepted For Credit: CSU & UC
This course is designed to provide students pursuing a career in secondary school math or science teaching with theory and hands-on experience working with children in math and science skills at a local elementary or secondary school. This course includes work with mathematics and science material, assessment, methodology, and the school environment. The course includes 50 hours of on-site field experience, as a service learning component, in a local elementary or secondary school. (GC)

EDUC-191A Tutor Training Part I
9.00 hrs lecture
Units: 0.50
Corequisite: Employment as a tutor at Ohlone College for at least 25 hours
This course covers effective methods for tutoring. The do’s and don’ts of tutoring, study skills, and questioning techniques are a few of the topics covered. Students enrolling in this course must be concurrently employed as a tutor at Ohlone College. CRLA has approved this course for certification, and students who receive CRLA certification are qualified to tutor at any of the over 500 colleges in the U.S. and Canada that have CRLA programs. Repeatable = 1 time (CR)

EDUC-191B Tutor Training Part II
9.00 hrs lecture
Units: 0.50
Corequisite: Employment as a tutor at Ohlone College for at least 25 hours
This course continues on from Part I with additional effective methods of tutoring. Learning styles, structuring the learning experience, handling challenging situations, and being inventive are among the topics covered. Students enrolling in this course must be concurrently employed as a tutor at Ohlone College. Leads to CRLA certification. Repeatable = 1 time (CR)

ENGINEERING

Division: Science, Technology, and Engineering

ENGI-101 Introduction to Engineering
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course explores the field of engineering and its different branches. It provides hands-on design projects including experimentation, team work, ethics, and the application of basic scientific principles to practical situations. (GC)

ENGI-114 How Technology Works
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: CNET-114
Accepted For Credit: CSU
This course is intended for students of all disciplines who are interested in how everyday things work. It is an introduction to some of the fundamental science concepts underpinning high technology, emphasizing everyday devices and practical experience, for the development of scientific and computer literacy. Students will experiment with technology to discover principles of science. Concepts such as force, work, energy, power, liquids and gasses, heat transfer, electricity, magnetism, electronics, light, materials science, and time are explored through experimentation and observation. Students will experience through class demonstrations and hands-on laboratories the concepts presented by the instructor. Phenomena such as how computers convert data, how iPods transmit sound, how electronic thermometers measure temperature, how solar heating panels capture heat, and how GPSs use microwaves will be explored. Field trips to local tech industry displays are required. (GC)

ENGI-115 Engineering Graphics and Design
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Accepted For Credit: CSU & UC
This course covers the principles of graphic expression by means of technical sketching, and computer aided drafting. (GR)

ENGI-120 Engineering Mechanics – Statics
54.00 hrs lecture
Units: 3.00
Prerequisite: PHYS-140 and MATH-101B
Accepted For Credit: CSU & UC
This course is a study of force systems and equilibrium in two and three dimensional structures, distributed forces, friction, and virtual work. (GR)

ENGI-130 Electric Circuit Analysis
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: MATH-101B and PHYS-141
Accepted For Credit: CSU & UC
This course is a study of DC and AC linear circuits and transient and steady state analysis. Experimental techniques, instrumentation, and circuit simulation will be covered in the lab. (GR)
ENGI-135 Introduction to Robotics and Automated Systems
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: CNET-115
Accepted For Credit: CSU
Students who take this class will understand how scientific innovation can affect their lives either directly or indirectly. The class will teach students the principles of scientific methodology as it is applied to solving problems. The application of this scientific method will be used to navigate an abundance of technical information — to obtain the information, to understand the information, and to determine how to apply it. This course describes the functional hardware and software components of Automated Systems. The student will experience how scientific principles are applied by building and programming robots. The emphasis is for students to learn science by actually doing science. Repeatable = 3 times (GC)

ENGI-140 Materials Engineering
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: CHEM-101A and PHYS-140
Accepted For Credit: CSU & UC
This course covers atomic and crystal structures; imperfections; diffusion and relation between microstructure; the properties of engineering materials such as metals, polymers, ceramics and composites; phase equilibrium and transformations; mechanical, electrical, thermal, magnetic and optical properties; corrosion; and material degradation. (GC)

Did you know?
Nearly 2/3 of community college students who transfer to UC complete a bachelor’s degree within three years of entering UC – a rate comparable to “native” UC students (those students who were eligible and entered as freshmen).
Source: Community College League of California
ENGL-101C Critical Thinking and Composition
54.00 hrs lecture
Units: 3.00
Prerequisite: ENGL-101A
Accepted For Credit: CSU & UC
Students will learn critical thinking skills and use them to read and evaluate essays in a precise, logical way. The emphasis will be upon critical analysis and upon the students’ development of effective, written arguments. (GR)

ENGL-104 The Short Story
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
Students read and discuss a wide variety of short stories. The short story is seen as a reflection of historical and contemporary concerns, as a happy entertainment alternative to television, and as a traditional and experimental literary form. (GC)

ENGL-106 Censorship and Literature
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: JOUR-106
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This literature course focuses on the issues of censorship and obscenity. Selected works will be closely examined in an attempt to encourage students to formulate their own standards in this controversial area. (GC)

ENGL-107 Literature and Film
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
“Lights, camera, action!” Hundreds of works of literature have been made into films, with varying degrees of success. If you’ve ever been disappointed (or thrilled) by the film version of a book you’ve read, you know that film adaptations range from “two thumbs way up” to “had me gagging on my popcorn.” This course will examine the relationships between literature and film, comparing and contrasting the two media. (GC)

ENGL-108 Writing Short Fiction
54.00 hrs lecture
Units: 3.00
Prerequisite: ENGL-101A
Accepted For Credit: CSU & UC
This course will review the fundamentals of fiction writing, provide an in-depth study of intermediate short fiction writing techniques, and offer exercises designed to stimulate creativity. (GR)

ENGL-109 The Graphic Novel
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course presents graphic novels and related literature genres by and about characters from various ethnic, cultural, socio-economic, historical, and geo-political backgrounds. These graphic novels will be analyzed with a focus on language, art, design, ideology, substance, and content in order to explore the genre of the graphic novel as an art form and literature form as well as to recognize the undercurrent of themes running through this form of literature. Studying the artists’ works and examining the historical, social, psychological, and cultural forces shaping the literary and artistic form of the graphic novel will allow students to become aware of this genre of literature as a unique contribution to the study of literature and art. (GC)

ENGL-111A Beginning Creative Writing
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course includes experimentation with creative principles such as fiction, non-fiction, drama, and poetry, and a critical analysis of the student’s work. (GC)

ENGL-111B Intermediate Creative Writing
54.00 hrs lecture
Units: 3.00
Prerequisite: ENGL-111A
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course provides students the opportunity to experiment with creative principles such as fiction, non-fiction, drama, and poetry, and a critical analysis of student’s work. (GC)

ENGL-112 Modern Fiction
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
The themes of love and sexuality, family conflict, coming of age, and the individual in society are explored in the fiction of modern writers such as Toni Morrison, Amy Tan, John Updike, Franz Kafka, and others. (GC)

ENGL-113 Poetry
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course examines traditional and contemporary poetry and poets. It includes discussion of sound, symbol, and spirit in poems by major poets like Shakespeare, Sylvia Plath, Wordsworth, Frost, Emily Dickinson, and others. (GC)

ENGL-114 World Mythology
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course is a study of significant myths and legends with emphasis on Greek/Roman, Nordic (Norse), and another Indo-European mythological system. Students also study other mythological systems of various cultures through independent research. Focus is on literature. (GC)
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL-115</td>
<td>Women in Literature</td>
<td>3.00</td>
<td>Students will read, discuss, and write about short stories, novels, poetry, drama, and essays of British and American women writers past and present. (GC)</td>
</tr>
<tr>
<td>ENGL-117</td>
<td>Science Fiction and Fantasy</td>
<td>3.00</td>
<td>A sampling of science fiction and fantasy from traditional space voyages, sword and sorcery to more sophisticated, modern forms are studied in this course. (GC)</td>
</tr>
<tr>
<td>ENGL-118</td>
<td>Introduction to Shakespeare</td>
<td>3.00</td>
<td>This course introduces the students to the Elizabethan era, to drama as a literary form, and to the plays and poems of William Shakespeare. (GC)</td>
</tr>
<tr>
<td>ENGL-119</td>
<td>The Gothic Novel</td>
<td>3.00</td>
<td>This course examines selected gothic novels in English and American Literature in order to analyze and discuss their importance in the development of fiction. Course focus is on the gothic impulse in nineteenth century literature. Classics like Frankenstein, Dracula, Jane Eyre, and Dr. Jekyll and Mr. Hyde will be studied in connection with the preoccupations of the Romantic and Victorian eras. Vintage films will be shown. (GC)</td>
</tr>
<tr>
<td>ENGL-120A</td>
<td>Survey of American Literature: Beginning to 1865</td>
<td>3.00</td>
<td>This course focuses on the literary productions of America from its beginning to 1865. Students will read and discuss American oral traditions, short stories, poetry, drama, and novels and will become familiar with great American writers. (GC)</td>
</tr>
<tr>
<td>ENGL-120B</td>
<td>Survey of American Literature: 1865 to Present</td>
<td>3.00</td>
<td>This course focuses on American literature from 1865 to the present: Transcendentalism, Modernism, and Postmodernism. Students will read and discuss classic American short stories, poetry, drama, and novels and will become familiar with great American writers. (GR)</td>
</tr>
<tr>
<td>ENGL-121</td>
<td>The Mystery: Unlocking Its Secrets</td>
<td>3.00</td>
<td>The course explores the mystery genre by introducing students to various works of past and contemporary British and American authors and by introducing students to the various sub-genres such as cozies, amateurs, police procedurals, forensics, and private investigators. (GC)</td>
</tr>
<tr>
<td>ENGL-122</td>
<td>Environmental Literature</td>
<td>3.00</td>
<td>This course is a survey of environmental writing reflecting the changing relationship between humans and their environment through time. Readings will cover a range of eras and philosophies, including Native American creation tales, narratives from the Age of Conquest, poetry and fiction from the Romantic Era, early environmental essays from the 19th and 20th centuries, and current environmental writing. Students will read a variety of literary and non-fiction texts from Thoreau, Muir, Leopold, Stegner, Carson, Abbey, Pollan, and others. (GC)</td>
</tr>
<tr>
<td>ENGL-125A</td>
<td>English Literature: From the Middle Ages to the Restoration/18th Century</td>
<td>3.00</td>
<td>The course encompasses several revolutions in style and sensibility that have shaped English literature from Beowulf through the Middle Ages, the 16th century, the 17th century, and the Restoration/Early 18th century. (GR)</td>
</tr>
<tr>
<td>ENGL-125B</td>
<td>English Literature: From Romanticism to Modernism</td>
<td>3.00</td>
<td>This course encompasses several revolutions in style and sensibility that have shaped English literature from the Romantic nature poets like Wordsworth, Keats, and Shelley to Modernist writers like James Joyce, Virginia Woolf, and T.S. Eliot. (GR)</td>
</tr>
<tr>
<td>ENGL-127</td>
<td>Autobiography: Writing Journals and Memoirs</td>
<td>3.00</td>
<td>This is an autobiography course for those who wish to write about their personal and family experiences in journals and memoirs. The course encourages students to remember, consider, and write about their own and their family's past and present, to learn basic research techniques, to organize their material, and to write effectively. Students will also discuss extracts from published autobiographical works. (GC)</td>
</tr>
<tr>
<td>ENGL-129</td>
<td>Psychology and Literature</td>
<td>3.00</td>
<td>This course focuses on a variety of major psychological issues as they emerge from the close study of character, conflict, and motivation in literature. Common themes will include attachment and identity, childhood, family conflict, sexuality and romantic love, stages of adulthood, and awareness of death. Major psychological theorists such as Freud, Piaget, and Erikson will be presented and their theories applied to the texts being analyzed and discussed. (GC)</td>
</tr>
</tbody>
</table>
ENGL-130 American Stories: Multicultural Autobiography and Memoir
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course explores the lives of multicultural Americans, such as Native Americans, African Americans, Asian Americans, and Latinos, as told through autobiography or memoir. (GC)

ENGL-131 Hip Hop/Slam Poetry
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU
This is a creative writing course in which students write and perform hip hop and slam poetry that expresses their thoughts about the world. (GC)

ENGL-141 Advanced Novel and Short Story Writing
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU
This course is to complete the ENGL-111A and ENGL-111B series for creative writing. Participants will be focusing on finishing their novels, memoirs, and/or updating their short stories, so that they may be published. (GC)

ENGL-151A Fundamentals of Composition
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: ESL-184RW or appropriate skill level demonstrated through the placement test process
Advisory: Concurrent enrollment in ENGL-162 or ENGL-175
This course focuses on fundamentals of English grammar, punctuation, and acceptable usage as applied to writing clear sentences, paragraphs, and informal essays. Not applicable to associate degree. Not applicable to associate degree. (GR)

ENGL-151B Fundamentals of Composition
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: ENGL-151A or appropriate skill level demonstrated through the placement test process
Advisory: Concurrent enrollment in ENGL-163 or ENGL-175
This course reviews fundamentals of English grammar, punctuation, and sentence structure and focuses on reading critically and writing well-developed and well-organized paragraphs and essays (descriptive, expository, and argumentative). Not applicable to associate degree. Not applicable to associate degree. (GR)

ENGL-156 Introduction to Report and Technical Writing
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-151B, BA-116, or equivalent writing experience
Accepted For Credit: CSU
This course focuses on the basics of technical writing and covers how to write effective workplace documents such as memos, procedures, and reports, as well as formal proposals. (GC)

ENGL-162 Developmental Reading
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: ESL-184RW or Accuplacer assessment. Concurrent enrollment in ENGL-151A encouraged to enhance combined reading and writing skills
English 162 is an introduction to college reading and study techniques. Students learn to analyze, annotate, and summarize a variety of college readings, including essays, textbooks chapters, news articles, and stories. Emphasis is on analytical reading: recognizing main ideas, discerning underlying patterns of thought, making inferences, and drawing conclusions. Not applicable to associate degree. Repeatable = 1 time (GR)

ENGL-163 Techniques of College Reading
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: ENGL-162 or score between 71.5 and 87.5 on the reading portion of Accuplacer Assessment
Advisory: Concurrent enrollment in ENGL-151B encouraged
ENGL-163 is the most advanced in the series of reading and study skills courses. In this course students will develop college level skills in vocabulary, comprehension, critical reading and thinking, study strategies, reading rate, and written response to reading. Not applicable to associate degree. Repeatable = 1 time (GR)

ENGL-164 Critical and Analytical Reading
54.00 hrs lecture
Units: 3.00
Prerequisite: ENGL-163, or eligible for ENGL-101A
Accepted For Credit: CSU
A college-level reading course with emphasis on the development of critical analytical thinking. Focus is placed on the student’s ability to understand inferential reading passages, including the ability to understand the author’s point of view and to engage in textual analysis. In addition, the student should develop the ability to successfully critique college-level reading material by analyzing a variety of prose structures. (GC)

ENGL-172 Vocabulary Improvement
54.00 hrs lab
Units: 1.00
This course is designed for students of all levels of achievement who wish to improve their vocabulary through an individualized program. Students will be asked to work 54 hours in the lab at their convenience. Materials are assigned after pretesting. Not applicable to associate degree. Repeatable = 3 times (GC)

ENGL-173 Improvement of Learning Techniques
54.00 hrs lab
Units: 1.00
ENGL-173 is for students who wish to improve learning skills through individualized practice of effective reading, studying, and listening. Students will be asked to work 54 hours or complete three assigned programs in the lab at their convenience. Materials are assigned after pretesting. Not applicable to associate degree. Repeatable = 3 times (GC)

ENGL-174 Spelling Improvement
54.00 hrs lab
Units: 1.00
ENGL-174 is for students who wish to improve spelling skills through individualized practice. Students will be asked to work 54 hours or complete three assigned programs in the lab at their convenience. Materials are assigned after pretesting. Not applicable to associate degree. Repeatable = 3 times (GC)
ENGL-175  Reading and Comprehension Improvement  
54.00 hrs lab  
Units: 1.00  
ENGL-175 is for students who wish to improve reading comprehension through individualized work on specific weaknesses. Students will be asked to work 54 hours or complete three assigned programs in the lab at their convenience. Materials are assigned after pretesting. Not applicable to associate degree. Repeatable = 3 times (GC)

ENGL-176  Rapid Reading  
54.00 hrs lab  
Units: 1.00  
Advisory: Ninth grade reading comprehension level  
This course is for the student who has at least a ninth grade level of comprehension and who wishes to increase reading rate while maintaining or improving the level of comprehension. Students will be asked to complete three programs equivalent to 54 hours at their convenience. Materials are assigned after pretesting. Not applicable to associate degree. Repeatable = 3 times (GC)

ENGL-365  Supervised Tutoring  
90.00 hrs lab  
Units: 0.00  
Prerequisite: Instructor or counselor referral  
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Not applicable to associate degree. Repeatable = 3 times (GC)

ENGLISH AS A SECOND LANGUAGE  
Division: Humanities, Social Sciences, and Mathematics

ESL-121  English Idioms  
36.00 hrs lecture  
Units: 2.00  
Prerequisite: Placement into ESL-181 or higher  
This course helps students learn idiomatic expressions that are commonly used by native speakers in English conversation. Students will listen to and read dialogues containing English idioms and practice producing them in informal dialogues of their own. Not applicable to associate degree. (GC)

ESL-122  News and Current Events for ESL Students  
36.00 hrs lecture  
Units: 2.00  
Prerequisite: ESL-181RW, or placement into ESL-182RW or higher  
Read and discuss news stories and current events. Simplified and standard newspapers will be used. Some writing will be required. Not applicable to associate degree. (GC)

ESL-123  English Verb Tenses  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ESL-181RW, or placement into a higher level of ESL or English  
This course is designed for non-native speakers of English who want a review of the English verb tense system. It emphasizes accurate use of verb tenses in writing, but it will include oral practice as well. Not applicable to associate degree. (GC)

ESL-125  Using the Internet for ESL Practice  
36.00 hrs lecture  
Units: 2.00  
This course is designed for non-native speakers of English to learn how to make good use of the rich internet resources available for learning and practicing English. Students will learn about a variety of ESL Web sites, and will learn the computer skills necessary to most effectively interact with those resources. Not applicable to associate degree. (GC)

ESL-150  English Pronunciation I  
54.00 hrs lecture  
Units: 3.00  
Advisory: Concurrent enrollment in ESL-181LS  
Practice in basic pronunciation including the International Phonetic Alphabet (IPA), the recognition and production of the corresponding IPA sounds, stress in words, basic rhythm and intonation patterns, and the development of fluency in basic communicative contexts. Not applicable to associate degree. (GC)

ESL-151  English Pronunciation II  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ESL-150  
Practice in intermediate pronunciation skills including a review of the International Phonetic Alphabet (IPA); the recognition and production of the corresponding IPA sounds; stress in sentences, rhythm, and intonation patterns; and the development of fluency in a greater variety of communicative contexts. Not applicable to associate degree. (GC)

ESL-181LS  Listening and Speaking, Level I  
90.00 hrs lecture  
Units: 5.00  
Prerequisite: Appropriate score on the ESL Placement Test  
This course is designed to develop communication skills in American English. It is open to students whose native language is not English. There is practice in the skills of listening and speaking with an emphasis on fluency and vocabulary development. Not applicable to associate degree. (GC)
ESL-181RW  Reading and Writing, Level I
90.00 hrs lecture
Units: 5.00
Prerequisite: Appropriate score on the ESL Placement Test
This course is designed to develop reading, writing, and grammar skills in American English. It is open to students whose native language is not English. There is practice in the skills of reading, writing, and grammar with an emphasis on fluency, vocabulary development, verb tenses, and basic sentence structure. Not applicable to associate degree. (GC)

ESL-182LS  Listening and Speaking, Level II
90.00 hrs lecture
Units: 5.00
Prerequisite: ESL-181LS and/or appropriate score on the ESL Placement Test
This course is designed to develop skills in American English. It is open to students whose native language is not English. There is practice in the skills of listening and speaking with an emphasis on fluency, vocabulary development, verb tenses, and basic sentence structure. Not applicable to associate degree. (GC)

ESL-182RW  Reading and Writing, Level II
90.00 hrs lecture
Units: 5.00
Prerequisite: ESL-181RW and/or appropriate score on ESL Placement Test
This course is designed to develop skills in American English. It is open to students whose native language is not English. There is practice in the skills of reading, writing, and grammar with an emphasis on fluency, vocabulary development, verb tenses, and basic sentence structure. Not applicable to associate degree. (GC)

ESL-183LS  Listening and Speaking, Level III
72.00 hrs lecture
Units: 4.00
Prerequisite: ESL-182LS and/or appropriate score on ESL Placement Test
This course is designed to develop aural/oral skills in American English for students whose native language is not English. There is practice in the skills of listening and speaking with an emphasis on fluency, comprehension, vocabulary development, verb tenses, beginning notetaking, and intermediate sentence structure. This is one of two combined skills courses in the third level of the ESL sequence. Not applicable to associate degree. (GC)

ESL-183RW  Reading and Writing, Level III
72.00 hrs lecture
Units: 4.00
Prerequisite: ESL-182RW or placement through ESL Placement Test
This course is designed to help non-native speakers of English improve their reading and writing skills in English. It emphasizes academic English skills that are necessary for higher levels of college study, and it is part of the third level of the ESL sequence. Not applicable to associate degree. (GC)

ESL-184RW  Reading and Writing, Level IV
72.00 hrs lecture
Units: 4.00
Prerequisite: ESL-183RW or appropriate score on the ESL Placement Test
This is the fourth level in the ESL sequence. It will emphasize reading and writing skills for academic purposes, but it will require oral presentations as well. Not applicable to associate degree. (GC)

ESL-191  Grammar and Editing Skills
54.00 hrs lecture
Units: 3.00
Prerequisite: ESL-183RW or placement into ESL-184RW, ENGL-151A, or higher level English course
This course is designed to help non-native speakers of English improve their grammar and editing skills, but is open to native speakers as well. It is open to students who are enrolled in or have completed any of the following courses: ESL-184RW, ENGL-151A, ENGL-151B, or ENGL-101A. Not applicable to associate degree. (CR)

ESL-365  Supervised Tutoring
90.00 hrs lecture
Units: 0.00
Prerequisite: Instructor or Counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with a tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Not applicable to associate degree. Repeatable = 3 times (NG)

ENVIRONMENTAL STUDIES

Division: Health Sciences and Environmental Studies

ENVS-101  Natural Resource Management
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
Quantitative analysis of earth’s natural resources and the role of human populations in their use, sustainable development, and exploitation. Topics typically include the status and trends of resources such as topsoil degradation, agriculture, water, energy, and wildlife. Emphasis is on problem solving and computational methods applied to resource management problems. (GC)

ENVS-102  Environmental Law and Regulations
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
This course explores fundamental legal and policy issues in environmental law. Legislative, judicial, and administrative controls over public and private actions impacting on the environment are discussed. The course examines the statutory, administrative, and judicial decisions relating to the environment and the government actors, agencies, and citizens making these decisions. (GC)

ENVS-103  The Environment and Human Health
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
A by-product of human population growth is the modification of habitat and the surrounding environment. This course examines the close link between human health and environmental health, particularly focusing on how pollution of the air, water, and land, as well as contamination of food and ecosystems, impacts the human body. (GR)
ENVS-104  Solar Photovoltaic Design and Installation
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Introduction of solar photovoltaic system requirements, design and configurations, installation techniques, and their application in residential and commercial construction. Entry-level Certification Exam from NABCEP is an option. (GR)

ENVS-105  Energy: Development and Sustainability
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
This course is an exploration of the conversion and use of energy, on the nature of energy and energy systems, how different cultures use and view energy, and the use of energy in contemporary societies. This course will explain the origin and dimensions of the global energy problem and identify how energy issues and policies affect environmental quality, economic growth, and global politics. The course will focus on how energy conservation, energy efficiency, and renewable energy sources can be incorporated to create a sustainable society. (GR)

ENVS-106  Wind Energy: Design and Development
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course explores the role of wind as an energy source, as well as its social, economic, and political implications on the global energy supply. Surveys in historical wind energy application will be conducted, its reliability assessed, and environmental implications analyzed. Also studied will be wind energy applications and basic operating principles. The status of the industry’s future and renewable energy as a whole will be analyzed. (GR)

ENVS-107  Introduction to Sustainable Agriculture
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course examines how changes in the way we eat and farm impact the environment and how traditional and evolving methods of farming can reduce our environmental impact and feed our populations sustainably. (GC)

ENVS-108  Human Ecology
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: BIOL-108
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
Human Ecology is an interdisciplinary, general education course that identifies problems created by man’s modification of his environment, presents solutions to these problems, and offers appropriate alternatives. (GC)

ENVS-109  Urbanization: Towards Green Communities
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course presents the sociological, economical, and sustainable perspective in the investigation and understanding of urban phenomena. Included are a wide range of topics that tap the spectrum of urban growth and development in both the developed and developing world. (GC)

ENVS-111  Advanced PV Design and Installation
54.00 hrs lecture
Units: 3.00
Prerequisite: ENVS-104
Accepted For Credit: CSU
The field of solar power is ever expanding with new technology, equipment, and installation techniques. This course will further enhance and add to the knowledge gained by students who have taken ENVS-104, Introduction to Solar PV Design and Installation. (GR)

ENVS-122  Environmental GIS
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Cross-referenced Course: GEOG-122
Prerequisite: GEOG-121
Advisory: CS-101A
Accepted For Credit: CSU
GIS skills applied to issues such as air pollution, urban design, environmental health, and water resources. (GC)

ENVS-142  Environmental Biology
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: BIOL-142
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This lecture and lab course is an introduction to the biological sciences focusing on diversity; organismal interactions with their environment and with other organisms (ecology), the effects humans have had on biological diversity and ecosystems, and efforts to protect species and their habitats (conservation). (GC)

FREN

Division: Humanities, Social Sciences, and Mathematics

FREN-101A  Elementary French
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is an introduction to the reading, writing, speaking, and understanding of French. (GR)

FREN-101B  Elementary French
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: FREN-101A or two years of high school French
Accepted For Credit: CSU & UC
This course is a continuation of FREN-101A. It covers the fundamentals of French grammar in addition to reading, writing, and speaking the language. (GR)

FREN-102A  Intermediate French
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: FREN-101B or three years of high school French
Accepted For Credit: CSU & UC
This course is a review of grammar, oral, and written composition and a study of French culture. (GR)
FREN-102B  Intermediate French  
90.00 hrs lecture, 18.00 hrs lab  
Units: 5.00  
Prerequisite: FREN-102A  
Accepted For Credit: CSU & UC  
This course is a continuation of FREN-102A that covers advanced grammar, oral and written composition, and the study of the French civilization. (GR)

FREN-110  Beginning Conversational French  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
This course focuses on the essentials of French conversation leading to the development of the ability to use the French language in everyday situations. Extensive oral practice of the language is combined with fundamental grammatical concepts. Repeatable = 3 times (GC)

GENDER AND WOMEN’S STUDIES  
Division: Humanities, Social Sciences, and Mathematics

WS-101  Introduction to Gender and Women's Studies  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course will focus on the questions and concepts in gender and women’s studies, the development of U.S. feminism and feminist theory, and the globalization of feminism and feminist concerns. Central to this course will be the ways in which place, race, ethnicity, sexuality, gender orientation, class, and age shape women’s experiences and the various socio-political meanings of gender. We will also examine the ways in which women have resisted inequality and effected social and political change. This course will be interdisciplinary in its approach, meaning that we will read feminist essays from a wide range of disciplines, including cultural studies, economics, history, philosophy, political theory, psychology, and sociology. In addition, we will conduct several small sociological experiments and observations, and we will watch excerpts of videos and films. (GC)

WS-108  Gender Communication  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: SPCH-108  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
Examine the influence of gender and culture on communication in personal relationships, organizations, mass media and society. (GR)

WS-115  Women in Literature  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: ENGL-115  
Advisory: Eligibility for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a study of selected fiction, poetry, drama, and essays of British and American women writers past and present. (GC)

WS-120  Women of the Western World  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: IS-120  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an interdisciplinary course involving an overview of women’s traditional roles in the western world; the history of the feminist movement, past and present; and an attempt to define the changing role of women in a diverse contemporary American society. Cross-cultural information about women’s roles in other societies will be regularly introduced. (GC)

WS-132  Introduction to US Muslim Women and Islam  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an in depth study of American Muslim women: their roots, beliefs, and practices; social, spiritual, and economic status; discriminatory treatment in education and employment; political involvement and socialization; and a comparative study of Muslim women to pre-Islamic, ancient, and Western women. (GR)

WS-150  Women's Health Issues  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: HLTH-150  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a study of the contemporary issues affecting women's health at home and at work from biological, psychological, and sociological perspectives. Explore such topics as mental health, sexuality, parenting, nutrition, exercise, rape and battery, aging, occupational health, and cultural diversity, and the effects on women in American culture. (GC)

GEOGRAPHY  
Division: Science, Technology, and Engineering

GEOG-101  Physical Geography  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU & UC  
This course will focus on the interaction between humans and their physical environment emphasizing the natural features of weather and climate, land forms, soil, vegetation, earthquakes, and volcanism, water quality and environmental management, and pollution. (GC)

GEOG-102  Cultural Geography  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course will focus on the study of the origin, spread, and regional differences of human cultures as they relate to the use of the earth and how they relate to their physical environments. The course explores how different people use and/or abuse or otherwise change the earth as the home of humanity. (GC)
GEOG-104  The World’s Nations  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course deals with the regional variations of the world and its effects of human modification of the physical environment. The factors contributing to landscape change such as settlement patterns, transportation networks, types of agriculture, and the various types of land tenure systems; current world problems and environmental issues are also discussed. (GC)

GEOG-105  California Geography  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU & UC  
This course investigates California’s physical, cultural, and economic environments; analyzing changes resulting from both natural and human interaction. The emphasis is on cultural diversity, human alteration of the landscape, and contemporary problems resulting from accelerated competition for natural, financial, and human resources. (GC)

GEOG-120  Introduction to Global Positioning Systems (GPS)  
9.00 hrs lecture, 2700 hrs lab  
Units: 1.00  
Advisory: GEOG-101  
This course focuses primarily on the science and application of Global Positioning System (GPS) technology. Students receive hands-on experience with space-based radio navigation systems. The course will examine current and future GPS applications, explore basic navigation, illustrate map coordinate systems, and then integrate this knowledge with the GPS satellite navigation system. (GR)

GEOG-121  Introduction to Geographic Information Systems (GIS)  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Advisory: GEOG-101  
Accepted For Credit: CSU  
The objective of this introductory course is to gain basic knowledge of GIS concepts, techniques, and applications. The emphasis of this course is to provide hands-on instruction on the functionality of GIS as an effective tool for modeling and analyzing complex spatial relationships. (GR)

GEOG-122  Environmental GIS  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Cross-referenced Course: ENVS-122  
Prerequisite: GEOG-121  
Accepted For Credit: CSU  
This course will apply skills and techniques that were introduced in Geography 121, Introduction to GIS. The course will allow the student to gain a further understanding of GIS concepts, technical issues, and applications using ArcView GIS to study various environmental themes. (GR)

GEOG-123  GIS Projects  
54.00 hrs lab  
Units: 1.00  
Prerequisite: GEOG-121  
Accepted For Credit: CSU  
This course enables students to manage GIS projects using knowledge acquired in GEOG-121 and GEOG-122. Repeatable = 1 time (GC)
GA-109A   Beginning Graphic Design I  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-109A  
Prerequisite: ART-104A  
Accepted For Credit: CSU  
This course is an introduction to graphic design. It will cover the fundamentals of letter form design with traditional and contemporary alphabets. Studio practice will emphasize the relationships between image and message. Repeatable = 3 times (GC)

GA-109B   Beginning Graphic Design II  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-109B  
Prerequisite: GA-109A or ART-109A  
Accepted For Credit: CSU  
This course is an introduction to the pictorial image and written word as basic components in a format for communications. The studio practice develops the student's ability to formulate and communicate a concept into graphic form for both presentation and production. Repeatable = 3 times (GC)

GA-110A   Advanced Graphic Design I  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-110A  
Prerequisite: GA-109B or ART-109B  
Accepted For Credit: CSU  
This is an advanced class. The emphasis is on students' problem-solving ability. It includes comprehensive projects in applied graphics and three-dimensional design. There is instruction in techniques for package design, product visualization, execution of 3-D design prototypes for presentation and photography. Repeatable = 3 times (GC)

GA-110B   Advanced Graphic Design II  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-110B  
Prerequisite: GA-110A or ART-110A  
Accepted For Credit: CSU  
This course gives advanced attention to design solution and presentation. The class deals with the development of a single all-inclusive graphic design project. The emphasis is on effective client relationship from concept development through assignment completion. Repeatable = 3 times (GC)

GA-138A   Beginning Photoshop  
27.00 hrs lecture, 81.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-138A  
Accepted For Credit: CSU & UC  
This course is for photographers with limited experience or new to Adobe Photoshop. Students learn how to work with a digital "darkroom" using images supplied by the instructor for this purpose. Topics included are working with layers and masks, opacity and blend modes, transforming, working with text, camera raw, actions and smart filters, print and web-based workflow. Repeatable = 3 times (GC)

GA-138B   Intermediate Photoshop  
27.00 hrs lecture, 81.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-138B  
Prerequisite: GA-138A or ART-138A  
Accepted For Credit: CSU  
This course is for photographers wishing to increase their working knowledge of Adobe Photoshop. Students work with a digital "darkroom" using original images as well as images supplied by the instructor. Topics included are working with layers and masks, opacity and blend modes, transforming, working with text, camera raw, actions and smart filters, print and web-based workflow. Repeatable = 3 times (GC)

GA-160A   Computer Graphics I  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ART-160A, BA-160A, CS-160A  
Accepted For Credit: CSU & UC  
This course is an introduction to microcomputers and to the creation of computer-generated graphics. This course examines the variety of software/hardware tools and techniques available for the production of computer-made imagery. The emphasis is on hard-copy production using printers, plotters, and other reproduction methods. This course also covers design principles, business graphics, and elementary programming principles. Repeatable = 3 times (GC)

GA-160B   Computer Graphics II  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: ART-160B, BA-160B, CS-160B  
Prerequisite: ART-160A, GA-160A, BA-160A, CS-160A  
Accepted For Credit: CSU  
This course is a continuation of GA-160A. The emphasis in this course is on developing intermediate and advanced skills needed to operate a computer graphics work station. The students complete projects of their choice using more complex Paint and CAD software, printers, and plotters. Repeatable = 3 times (GC)

GA-161A   Digital Graphics I  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Cross-referenced Course: ART-161A, CAOT-161A  
Accepted For Credit: CSU  
This course is an overview of computer graphics on desktop computers for graphic designers, artists, typographers, and for business applications. This course will cover hardware and software including: laser printers, ink jet printers, scanners, tablets, and bit-mapped and vector-based graphics programs. This course also covers design principles and business graphics. The course emphasis is on the creation of a portfolio of computer graphics drawings. Repeatable = 3 times (GC)
GA-161B  Digital Graphics II
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Cross-referenced Course: ART-161B, CAOT-161B
Prerequisite: GA-161A, ART-161A, or CAOT-161A
Accepted For Credit: CSU
This course is a continuation of GA-161A. The emphasis in this course is on developing intermediate and advanced skills needed to set up and operate a digital graphics work station and publish on the Web. Students complete projects of their choice using complex graphics software, scanners, tablets, and printers. The course emphasis is on the continued development of a portfolio of computer images. Repeatable = 3 times (CR)

GA-163  Digital Arts Lab – Macintosh
27.00 hrs lab
Units: 0.50
Cross-referenced Course: ART-163, ID-163
This course is a lab component for all courses taught on the Macintosh and on drafting equipment in these areas: Art, Graphic Arts/Computer Graphics, Photography, and Interior Design. Students will produce digital graphic and drafting projects for art related classes. Repeatable = 3 times (CR)

GA-169A  Beginning Digital Photography
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Cross-referenced Course: ART-139A
Accepted For Credit: CSU & UC
This course explores the photographer’s creative process from several directions. Students will undertake photographic projects designed to provide engagement with a variety of subject matter and ways of photographing, look at photographic work in online and local galleries and museums, consider current issues having to do with photographic technologies, discuss their photographs with other students in an effort to improve their creative processes. Technical instruction will include camera functions, resizing and saving digital files, and minor image modification. For intense technical instruction, see ART-138A and ART-138B. Repeatable = 3 times (GC)

GA-169B  Intermediate Digital Photography
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Cross-referenced Course: ART-139B
Prerequisite: ART-139A or GA-169A
Accepted For Credit: CSU
This course continues an exploration of the photographer’s creative process from several directions. Students will undertake photographic projects designed to provide engagement with a variety of subject matter and ways of photographing; complete an extended photographic project of their choosing and receive guidance from the instructor and students; look at photographic work in online and local galleries and museums; consider current issues around photographic technologies; discuss their photographs with other students in an effort to improve their creative processes. Students will formalize their individual projects as books or online galleries. Technical instruction will include camera functions, resizing and saving digital files, and minor image modification. For intense technical instruction see ART-138A and ART-138B. Students should consider completing ART-138A prior to enrolling in this course, but it is not a requirement. Repeatable = 3 times (GC)

HLTH-101  Contemporary Health Issues
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course promotes personal, family, and community well-being and includes ways to obtain and maintain optimum wellness. (GC)

HLTH-120  Mind-Body Balance
36.00 hrs lecture
Units: 2.00
This experiential course invites participants to integrate mind-body techniques into their life to promote relaxation, balance, and mindfulness. Mind-body techniques include meditation, breath work, biofeedback, imagery, reflective drawing, journaling, nutrition, time management, assertiveness, and exercise. This course focuses on the art of self-care. Registered Nurses and Licensed Vocational Nurses will receive thirty continuing education hours upon successful course completion. (GC)

HLTH-125  Stress Management
36.00 hrs lecture
Units: 2.00
Advisory: Ability to read and write English at a college level is highly recommended
Accepted For Credit: CSU
This course is a theoretical and experiential approach for incorporating stress management into your daily life. Understand the stressors in your life, the physical and psychological implications of that stress, prevention strategies and stress reduction techniques. (GC)

HLTH-130  Acupressure Connection I
18.00 hrs lecture
Units: 1.00
Cross-referenced Course: AH-130
This course presents the fundamental concepts of acupressure. Students give acupressure treatments to self and others to relieve pain and promote relaxation. Additional holistic health practices are addressed including therapeutic touch, relaxation techniques, meditation, exercise, and nutrition. This course is open to anyone who is interested in living a healthier lifestyle and assisting others to do the same. Registered Nurses and Licensed Vocational Nurses will receive sixteen continuing education hours upon successful course completion. (CR)

HLTH-150  Women’s Health Issues
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: WS-150
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is a study of the contemporary issues affecting women’s health at home and at work from biological, psychological, and sociological perspectives. Explore such topics as mental health, sexuality, parenting, nutrition, exercise, rape and battery, aging, occupational health, and cultural diversity, and the effects on women in American culture. (GC)
HLTH-160 Human Sexuality
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
This course examines the physiological and psychological aspects of sexual health in our contemporary society. Understanding the interrelationship of attitude and behavior as it relates to sexual integrity. Emphasis will be on knowledge, attitudes and behavior that will contribute to a healthy individual. (GC)

HIST-104A Western Civilization with a World Perspective Until 1600
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is a survey of the cultural, social, and political developments of civilization in the Mediterranean through the beginning of early modern history. This course takes an interdisciplinary approach to the study of Western Civilization before 1600 and includes a world perspective. (GC)

HIST-104B Western Civilization with a World Perspective From 1600
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is a survey of the cultural, social and political developments in Western Civilization with a world perspective from the rise of the nation-state through contemporary times with a speculative look at the future. (GC)

HIST-105 History of California
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course covers the heritage and development of California from its beginnings to the present day with emphasis on the economic, social, ethnic, multicultural, and political forces which shaped the modern state. The Golden State's phenomenal growth and multicultural changes are emphasized. (GC)

HIST-107 History of Film
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: TD-107
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course examines the impact of film on our lives and history. Students will review films, and discuss and analyze techniques used. (GR)

HIST-112 Chicano History
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: CHS-102
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course covers the development of Chicano history. Special emphasis will be placed upon the influence of Chicano history on contemporary institutions, particularly in the Southwest and California. (GC)

HIST-114A African American History 1619-1877
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-151B and/or ENGL-163
Accepted For Credit: CSU & UC
This course covers the history of African Americans from the early 17th century to 1877. Political, social, cultural, and economic experiences will be discussed. (GR)

HIST-114B African American History 1877 to Present
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-151B and/or ENGL-163
Accepted For Credit: CSU & UC
A history of African Americans from 1877 to present will be covered. Political, social, cultural, and economic experiences will be discussed. (GR)

HIST-115 Asian-American History
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is a review of Asian Pacific Americans in the social, political, economic and cultural development of the United States from Reconstruction to the present. Groups surveyed will include Korean, Filipino, Asian Indian, Pacific Islanders, South East Asian, Japanese, and Chinese. (GC)

HIST-117A History of the United States
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course surveys the history of the United States from pre-colonial times through Reconstruction (1877). (GR)

HIST-117B History of the United States
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course surveys the history of the United States from 1877 (the end of Reconstruction) to the present. (GC)

HIST-118 Contemporary U.S. History: 1945-
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course surveys the post-World War II role of the United States in world affairs and explores the socio-political development of the nation from 1945 to the present. It will emphasize the growing cultural pluralism of twentieth century America. (GR)

2011-2012 OHLONE COLLEGE CATALOG
HIST-119A  Bad Girls: Women in America Before 1890  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
Women before 1890 faced numerous hardships in their struggles for equality. This course traces women of different racial and ethnic backgrounds as they challenge social, economic, political, and gender norms in North America. The course explores how women have negotiated issues such as race, class, gender, work/labor, and sexuality. (GC) 

HIST-119B  Bad Girls: Women in America From 1890  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
Women in the United States after 1890 faced numerous hardships in their struggles for equality. This course traces women of different racial and ethnic backgrounds as they challenge social, economic, political, and gender norms in North America. The course explores how women have negotiated issues such as race, class, gender, work/labor, and sexuality. (GR) 

HIST-141  A History of Early Rock and Roll: Music and Culture of the 1950's  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: IS-142, MUS-122  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course presents a historical overview of the emergence of rock and roll music as a cultural phenomenon in the U.S. The major figures of the 1950's – Bill Haley, Fats Domino, Elvis Presley, Chuck Berry, and Little Richard – will be studied alongside the major historical events and trends that shaped this decade. The course is designed to gradually develop a student's appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and roll and the American Culture. The course will chart how rock & roll simultaneously reflects and affects society by grounding the key people, events, and songs within their historical context. (GC) 

HIST-142  History of Rock and Roll: Music and Culture of the 1960's  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: IS-143, MUS-123  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course charts the evolution of Rock and Roll music from the late 1950's through the 1960's, focusing on the history of the period as well as a detailed analysis of the stylistic development of this important musical genre. The course is designed to gradually develop students' appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and American society. (GC) 

HIST-143  History of Rock and Roll: Music and Culture Since 1970  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: MUS-125  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course examines the development of popular music and its relationship to general culture and society since 1970. It will include identification and analysis of art rock, disco, new wave, reggae, rap, hip-hop, worldbeat, and other musical genres through online reading, lectures, and in-class demonstrations. (GR) 

INTERDISCIPLINARY STUDIES  
Division: Fine Arts, Business, and Communication Studies  

IS-100  Survey of the Arts  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: ART-100, MUS-100, TD-100  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
In this course theatre, art, and music are explored through discussion, historical review, and contemporary issues. The purpose of this course is to increase students' understanding and enjoyment of the arts. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC) 

IS-110  Introduction to Ethnic Studies  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course is an introduction to the historical experiences of selected ethnic minority communities in the United States which affect how minorities view themselves in relationship to the larger United States society. Exploration of such issues as affirmative action, differential educational needs, and cross-cultural learning and communication patterns will be studied. (GC) 

IS-120  Women of the Western World  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: WS-120  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an interdisciplinary course involving an overview of women's traditional roles in the western world; the history of the feminist movement, past and present; and an attempt to define the changing role of women in a diverse contemporary American society. Cross-cultural information about women's roles in other societies will be regularly introduced. (GC) 

Did you know???

$1.6 million is the average lifetime earnings of a graduate with an associate's degree – $400,000 more than for a high school graduate. 
Source: Community College League of California
**IS-142**  
**Title:** A History of Early Rock and Roll: Music and Culture of the 1950’s  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: HIST-141, MUS-122  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course presents a historical overview of the emergence of rock and roll music as a cultural phenomenon in the U.S. The major figures of the 1950’s – Bill Haley, Fats Domino, Elvis Presley, Chuck Berry, and Little Richard – will be studied alongside the major historical events and trends that shaped this decade. The course is designed to gradually develop a student’s appreciation of this art form while simultaneously exposing the symbiotic interrelationship between rock and roll and American culture. The course will chart how rock and roll simultaneously reflects and affects society by grounding the key people, events, and songs within their historical context.  
(GC)

**IS-143**  
**Title:** History of Rock and Roll: Music and Culture of the 1960’s  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: HIST-142, MUS-123  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course charts the evolution of Rock and Roll music from the late 1950’s through the 1960’s, focusing on the history of the period as well as a detailed analysis of the stylistic development of this important musical genre. The course is designed to gradually develop students’ appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and American society.  
(GC)

**INTERIOR DESIGN**  
Division: Fine Arts, Business, and Communication Studies

**ID-150A**  
**Title:** Interior Design Concepts  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: ART-150A  
Accepted For Credit: CSU  
In this introductory course, students analyze interiors using basic design concepts, principles, and techniques used by professional interior designers, and case studies in problem solving with an emphasis on residential interiors are presented.  
(GC)

**ID-150B**  
**Title:** Interior Design  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-150B  
Prerequisite: ID-150A or ART-150A  
Accepted For Credit: CSU  
This course is a continuation of ID-150A. Interior design theories and methodologies are explored in depth through case studies emphasizing the design of public space. Repeatable = 3 times  
(GC)

**ID-151**  
**Title:** Visualization and Presentation  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-151  
Accepted For Credit: CSU  
This course familiarizes students with current methods and materials used in the design industry to develop concepts and communicate ideas. Students will prepare projects for a design portfolio. Repeatable = 3 times  
(GC)

**ID-153**  
**Title:** History of Decorative Arts  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: ART-153  
Accepted For Credit: CSU & UC  
Students study furniture construction, styles, and periods in conjunction with the architecture and related decorative arts of each era from ancient times to the present. This course includes political, religious, and cultural histories which significantly influenced these arts.  
(GC)

**ID-154**  
**Title:** Contemporary Home Design  
36.00 hrs lecture  
Units: 2.00  
Cross-referenced Course: ART-154  
Accepted For Credit: CSU  
Students study the architectural history of home design and learn practical applications of information relating to design, construction methods, and economic practices.  
(GC)

**ID-155A**  
**Title:** Architectural Drafting for Interior Design  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-155A  
Advisory: Concurrent with ART-163, GA-163, ID-163  
Accepted For Credit: CSU  
This course will introduce basic drafting techniques as related to architectural working drawings for interior design. Construction materials and procedures will be discussed. Repeatable = 3 times  
(GC)

**ID-155B**  
**Title:** CAD for Interior Design  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-155B  
Advisory: ID/ART-155A  
Accepted For Credit: CSU  
This course focuses on the fundamentals of computer-aided drafting as related to interior design and architectural drawings. Understanding CAD concepts and using commands are emphasized. Drawing skills are learned and developed by applying these concepts to solve practical laboratory problems. Repeatable = 3 times  
(GC)

**ID-156**  
**Title:** Architectural Modemaking for Interior Design  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Cross-referenced Course: ART-156  
Accepted For Credit: CSU  
Scale models will be developed in this class for presenting and studying architectural interior spaces. A wide range of materials and processes will be explored. Repeatable = 3 times  
(GC)

**ID-157**  
**Title:** Professional Practice for Interior Design  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: ART-157  
Accepted For Credit: CSU  
This class introduces basic business practices for interior designers. It also includes an overview of career paths, business planning and organization, professional associations, marketing, sales, wholesale resource development, contractual obligations, and ethics. It is designed for people preparing to enter the field of interior design.  
(GC)
ID-158  Textiles
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: ART-158
Accepted For Credit: CSU & UC
This is a comprehensive course in the study of textiles as related to interior design. Fiber and fabric construction and characteristics are examined; textile choices are evaluated and analyzed for safety, functionality, and aesthetics; and the impacts of textiles on interior environments are considered. Students gain an empirical understanding of the nature of textiles through hands-on projects in the laboratory component. Repeatable = 3 times (GC)

ID-159A  Applied Design: Residential Lighting
18.00 hrs lecture
Units: 1.00
Cross-referenced Course: ART-159A
Accepted For Credit: CSU
This seminar will present an overview of basic considerations necessary to plan, choose, and place lighting fixtures throughout a home to help define space, articulate atmosphere, direct attention, and facilitate activities. (GC)

ID-159B  Applied Design: Color for the Home
18.00 hrs lecture
Units: 1.00
Cross-referenced Course: ART-159B
Accepted For Credit: CSU
This seminar explores theoretical and experiential approaches to choosing color schemes for residences. (GC)

ID-163  Digital Arts Lab – Macintosh
27.00 hrs lab
Units: 0.50
Cross-referenced Course: ART-163, GA-163
This course is a lab component for all courses taught on the Macintosh and on drafting equipment in these areas: Art, Graphic Arts/Computer Graphics, Photography, and Interior Design. Students will produce digital graphic and drafting projects for art related classes. Repeatable = 3 times (CR)

INTERPRETER TRAINING
Division: Deaf Studies

INT-101  Interpreting As a Career
18.00 hrs lecture
Units: 1.00
Accepted For Credit: CSU
This course gives students general information about the field of interpreting. Topics include history, definitions of interpreting, modes and methods, the need for interpreting, code of ethics, interpreting settings, and evaluation and certification of interpreters. (GC)

INT-106  Discourse Analysis: ASL
54.00 hrs lecture
Units: 3.00
Prerequisite: Acceptance into the IPP
Accepted For Credit: CSU
This course is an overview of ASL discourse. Topics include discourse structure, language variation, genre, register, prosody, cohesion, turn-taking and backchanneling, and gendered communication. Transcription conventions will be reviewed for noting language samples. Repeatable = 1 time (GR)

INT-107  Interpreter Orientation
54.00 hrs lecture
Units: 3.00
Prerequisite: Acceptance into the IPP
Accepted For Credit: CSU
This course provides students with a working knowledge of the interpreting profession and examines basic principles and practices of interpreting. It also examines student strengths and weaknesses as they relate to interpreting and working with Deaf people as well as developing and assessing interactional skills needed for working in a practice profession. (GR)

INT-112  Comparative Linguistics: ASL and English
54.00 hrs lecture
Units: 3.00
Prerequisite: Acceptance into IPP
Accepted For Credit: CSU
This course is designed for first year Interpreting Program students. The syntactic structures of ASL are reviewed, followed by an in-depth study of English syntax as it relates to semantics and interpreting. Repeatable = 1 time (GR)

INT-115  Interpreting Preparation Skills
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Prerequisite: Acceptance into the IPP
Accepted For Credit: CSU
This course provides the theoretical basis for interpretation. The interpreting process is broken down into process parts, isolated, and then practiced. Skills include memory, discrimination, cloze, discourse analysis, content mapping, summarizing and paraphrasing skills. Expressive fingerspelling is also practiced. Repeatable = 1 time (GR)

Photo courtesy of Jaclyn Vetter.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Corequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>INT-145</td>
<td>Practicum: Deaf Mentorship</td>
<td>4.50</td>
<td>243</td>
<td>360</td>
<td>Corequisite: Completion of first semester IPP courses</td>
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<tr>
<td>INT-160</td>
<td>Simultaneous Interpretation: English/ASL</td>
<td>3.00</td>
<td>36</td>
<td>54</td>
<td>Corequisite: Completion of first year IPP courses</td>
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<tr>
<td>INT-161</td>
<td>Simultaneous Interpreting: ASL/English</td>
<td>3.00</td>
<td>36</td>
<td>54</td>
<td>Corequisite: INT-160, INT-161, INT-173, INT-175</td>
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<tr>
<td>INT-173</td>
<td>Interpretation in Specialized Settings</td>
<td>3.00</td>
<td>54</td>
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<td>Corequisite: Completion of first year IPP courses</td>
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<tr>
<td>INT-175</td>
<td>Specialized Interpreting Technique</td>
<td>2.00</td>
<td>18</td>
<td>54</td>
<td>Corequisite: Completion of first year IPP courses</td>
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<tr>
<td>INT-180</td>
<td>Ethics, Role, Responsibility</td>
<td>3.00</td>
<td>54</td>
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<td>Corequisite: Completion of three semesters of IPP courses</td>
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<tr>
<td>INT-190</td>
<td>Interpreting Internship</td>
<td>5.00</td>
<td>270</td>
<td></td>
<td>Corequisite: Completion of three semesters of IPP courses</td>
</tr>
</tbody>
</table>
INT-191A  ASL Interpreting Workshops
18.00 hrs lecture
Units: 1.00
Prerequisite: Working interpreter experience; four semesters of ASL
Accepted For Credit: CSU
This course is a workshop for working interpreters covering selected topics in the field of sign language interpreting. The theme and content of each workshop varies and is determined by the faculty. Repeatable = 3 times (CR)

INT-191B  ASL Interpreting Workshops
36.00 hrs lecture
Units: 2.00
Prerequisite: Working interpreter experience; four semesters of ASL
Accepted For Credit: CSU
This course is a workshop for working interpreters covering selected topics in the field of sign language interpreting. The theme and content of each workshop varies and is determined by the faculty. Repeatable = 3 times (CR)

INT-191A  Work Experience Education – Vocational
75.00 hrs lab
Units: 1.00
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC) (GC)

INT-191B  Work Experience Education – Vocational
150.00 hrs lab
Units: 2.00
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC) (GC)

INT-191C  Work Experience Education – Vocational
225.00 hrs lab
Units: 3.00
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC) (GC)

INT-191D  Work Experience Education – Vocational
300.00 hrs lab
Units: 4.00
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC) (GC)

INT-199A  Introduction to Multicultural Issues in Interpreting
18.00 hrs lecture
Units: 1.00
Corequisite: INT-145, INT-147, INT-153, INT-199B
Accepted For Credit: CSU
This course introduces students to multicultural issues important to people working in a helping profession. Populations to be highlighted are American Indian/Native Americans, African American/Black, Asian and Pacific Islanders, and Latino. (GC)

INT-199B  Introduction to Oral Facilitation
9.00 hrs lecture
Units: 0.50
Corequisite: INT-145, INT-147, INT-153, INT-199A
Accepted For Credit: CSU
This course introduces students to working with Deaf people who do not know sign language. Techniques for oral transmission of information will be covered. (GC)

INT-199C  Introduction to Medical Interpreting
18.00 hrs lecture
Units: 1.00
Corequisite: INT-237, INT-240, INT-253, or instructor approval for working and Deaf interpreters
Accepted For Credit: CSU
This course introduces students to interpreting in the medical setting. Topics include the wide variety of situations and consumers in the setting, environmental considerations, interpersonal considerations, medical discourse, situational ethics, and resources. (GC)

INT-199D  Introduction to Educational Interpreting K-12
18.00 hrs lecture
Units: 1.00
Corequisite: IPP students must be in their third semester class and have passed all second semester courses with C or better. This course is also open to working interpreters. Deaf interpreters are welcome.
Accepted For Credit: CSU
An introduction to interpreting in the educational setting with a focus on elementary and secondary levels of education. Emphasis will be on child development through the years, resource development, team building, roles and responsibilities, communicating with children, and situational ethics. (GC)

INT-199E  Introduction to Post-Secondary Interpreting
9.00 hrs lecture
Units: 0.50
Corequisite: IPP students must be in their second year; also open to working and Deaf interpreters with instructor approval.
Accepted For Credit: CSU
This course is an introduction to interpreting in the post-secondary educational setting. The focus of this course is on the roles and responsibilities of the interpreter, language assessment, resource development, situational ethics, identifying demands and controls in the wide variety of post-secondary educational settings, and team building. (GC)

INT-199F  Introduction to Social Service and Employment
9.00 hrs lecture
Units: 0.50
Corequisite: Students must be registered in all third semester courses: INT-227, INT-245, INT-253 and other INT-199 series courses. Working interpreters and Deaf Interpreters may join with instructor or Division Office approval.
Accepted For Credit: CSU
This course introduces students to interpreting in the social service and employment setting. Topics include the wide variety of situation and consumers in this setting, environmental, interpersonal considerations, vocabulary and discourse unique to these settings, situational ethics and resources. (GC)

INT-199G  Introduction to Telephone and Video Relay Interpreting
9.00 hrs lecture
Units: 0.50
Prerequisite: INT-227, INT-245, INT-253, and INT-199 series courses. Non-IPP students must have approval of instructor or program director.
Corequisite: INT-263, INT-295, INT-299, and other INT-199 courses; BA-121A and BA-121B
Accepted For Credit: CSU
This course introduces students to interpreting using the telephone and video, interpreting remotely. Unique characteristics of this medium, strategies, discourse styles as well as environmental, interpersonal, paralinguistic and interpersonal considerations will be discussed. Ethics will also be considered. (GC)
INT-199H Introduction to Mental Health Interpreting  
9.00 hrs lecture  
Units: 0.50  
Prerequisite: INT-245, INT-253, INT-227 and various INT-199 courses.  
Corequisite: IPP students must be enrolled in other third and/or fourth semester courses. Working interpreters and Deaf interpreters must get approval of instructor or program director.  
Accepted For Credit: CSU  
This course introduces students to interpreting in the mental health setting. Topics include the wide variety of situations and consumers in the setting, environmental considerations, interpersonal considerations, mental health discourse, situational ethics and resources. (GC)

INT-199I Introduction to Deaf/Hearing Team Interpreting  
9.00 hrs lecture  
Units: 0.50  
Prerequisite: INT-253  
Corequisite: INT-263, INT-295, INT-299 and other INT-199 courses. Deaf and working interpreters must have approval of instructor or program director.  
Accepted For Credit: CSU  
This course introduces students to working in teams-with a hearing and Deaf interpreters. Topics include advocating for the use of Deaf/hearing teams, environmental and interpersonal considerations, team development, negotiating strategies of working together, and ethical and cultural considerations. (GC)

INT-227 Ethics II: Interpreting Ethics and Decision-Making  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: First unit course on personal ethics as well as INT-145, INT-147, INT-153, and INT-199A  
Corequisite: INT-245, INT-253, and courses offered in the INT-199 series  
Accepted For Credit: CSU  
Though lecture, discussion, and role play, this course will cover ethics as it relates to the field of sign language interpreting, the Code of Professional Conduct (CPC) from the Registry of Interpreters for the Deaf (RID), professional behavior, liability, and preparation for the ethical portion of the national RID exam. Demand-Control Schema (DCS) will be the lens used to determine effectiveness of actions taken by interpreters. (GR)

INT-245 Phantom Interpreting  
18.00 hrs lab  
Units: 1.00  
Prerequisite: INT-145, INT-147, INT-153, and INT-199A  
Corequisite: INT-253, INT-227, and at least one of the INT-199 courses offered  
Accepted For Credit: CSU  
Students will apply knowledge gained in the first year courses by interpreting live situations on campus and in the community. Students will apply Demand-Control schema analysis of situations, assignment preparation. (GR)

INT-253 Interpreting: English to ASL  
72.00 hrs lecture, 108.00 hrs lab  
Units: 6.00  
Prerequisite: INT-145, INT-147, INT-153, INT-199A, and other courses in INT-199 series.  
Accepted For Credit: CSU  
The focus of this course is interpreting from English into ASL. Texts will be analyzed for language use and meaning and interpreted into ASL. Consecutive and simultaneous interpreting will be studied and practiced. (GR)

INT-263 Interpreting Across the Language Continuum  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Corequisite: INT-295, INT-299, and INT-199 series  
Accepted For Credit: CSU  
This focus of this course is to interpret and match a wide range of language varieties that exist in the Deaf community. Monologic and dialogic/interactive texts will be presented. Live and videotaped stimulus will be used. (GR)

INT-295 Interpreting Internship  
243.00 hrs lab  
Units: 4.50  
Prerequisite: Completion of three semesters of IPP courses  
Accepted For Credit: CSU  
This course is designed to provide IPP students’ exposure to Deaf adults and the role of the interpreter in a variety of settings. Students may be provided the opportunity to do some low-risk interpreting. A weekly seminar is included to process experiences of practicum experience. Repeatable = 1 time (GR)

INT-299 Capstone Course  
54.00 hrs lab  
Units: 1.00  
Prerequisite: INT-227, INT-245, INT-253, and INT-199 series courses  
Corequisite: INT-263, INT-295, and various INT-199 courses  
Accepted For Credit: CSU  
This is the final course of the IPP. Students will interpret analyze and present a piece of work for a panel. Students will also create their exit portfolio. (GR)

JAPANESE
Division: Humanities, Social Sciences, and Mathematics

JPNS-101A Elementary Japanese  
90.00 hrs lecture, 18.00 hrs lab  
Units: 5.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
Introduction to speaking, understanding, reading, and writing Japanese. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture. (GR)

JPNS-101B Elementary Japanese  
90.00 hrs lecture, 18.00 hrs lab  
Units: 5.00  
Prerequisite: JPNS-101A or two years of high school Japanese  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a continuation of speaking, understanding, reading, and writing Japanese. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture. (GR)
JPNS-102A Intermediate Japanese
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: JPNS-101B or three years of high school Japanese
Accepted For Credit: CSU & UC
This course is a continuation of JPNS-101B with emphasis on the four areas of listening, speaking, reading, and writing in Japanese, as well as a greater in-depth study of Japanese culture. (GR)

JPNS-102B Intermediate Japanese
90.00 hrs lecture, 18.00 hrs lab
Units: 5.00
Prerequisite: JPNS-102A
Accepted For Credit: CSU & UC
This course is a continuation of JPNS-102A with emphasis on the four areas of listening, speaking, reading, and writing in Japanese, as well as a greater in-depth study of Japanese culture. (GR)

JOURNALISM

Division: Fine Arts, Business, and Communication Studies

JOUR-101A Newswriting
54.00 hrs lecture
Units: 3.00
Prerequisite: ENGL-101A
Accepted For Credit: CSU & UC
This course trains students in newswriting techniques, interviewing, feature writing, ethics, and legal responsibilities. Online and broadcasting newswriting techniques are included. (GR)

JOUR-106 Censorship and Literature
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: ENGL-106
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This literature course focuses on the issues of censorship and obscenity. Selected works will be closely examined in an attempt to encourage students to formulate their own standards in this controversial area. (GC)

JOUR-132 Introduction to Public Relations
54.00 hrs lecture
Units: 3.00
Prerequisite: JOUR-101A
Accepted For Credit: CSU
Demonstrate knowledge of the field and practice of public relations. Explain public relations history, theories, and techniques. Employ practical approach to creating press releases, organizing and executing public relations campaigns. Practice ethical- and research-based responses to challenges facing organizations. (GR)

JOUR-146 Photography/Graphic Arts Newspaper Staff
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Cross-referenced Course: ART-146
Advisory: ART-106A or ART-133A
Accepted For Credit: CSU
Staff members initiate, plan, and complete photographic or graphic art assignments for publication in the college newspaper and/or magazine. Training emphasizes use of techniques and skills that communicate ideas effectively to a mass media audience. Photographers and artists have access to Macintosh computers, scanners, and PhotoShop for completion of assignments. Students are also introduced to legal and ethical responsibilities. JOUR-146 students are expected to produce one photo/graphic per issue. Repeatable = 3 times to a maximum of 9 units (GC)

JOUR-147 Photography/Graphic Arts Newspaper Staff
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Cross-referenced Course: ART-147
Advisory: ART-106A or ART-133A
Accepted For Credit: CSU
Staff members initiate, plan, and complete photographic or graphic art assignments for publication in the college newspaper and/or magazine. Training emphasizes use of techniques and skills that communicate ideas effectively to a mass media audience. Photographers and artists have access to Macintosh computers, scanners, and PhotoShop for completion of assignments. Students are also introduced to legal and ethical responsibilities. JOUR-147 students are expected to produce two photos or graphics per issue. Repeatable = 3 times to a maximum of 9 units (GC)

JOUR-148 Photography/Graphic Arts Newspaper Staff
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Cross-referenced Course: ART-148
Advisory: ART-106A or ART-133A
Accepted For Credit: CSU
Staff members initiate, plan, and complete photographic or graphic art assignments for publication in the college newspaper and/or magazine. Training emphasizes use of techniques and skills that communicate ideas effectively to a mass media audience. Photographers and artists have access to digital cameras, Macintosh computers, scanners, and PhotoShop for completion of assignments. Students are also introduced to legal and ethical responsibilities. JOUR-148 students are expected to produce three photos or graphics per issue. This course is usually reserved for managers and editors. Repeatable = 3 times to a maximum of 9 units (GC)

JOUR-155 Mass Media and Society
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: BRDC-155
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
We swim in an ocean of media. Our thoughts, beliefs, life choices, jobs, government, and shopping decisions are all influenced by the media. Most of us complain about it, but we wouldn't turn the media off, even if we could. Yet we don't know much about it. Who decides what messages get sent? What do the senders want? How do we process the messages? How does the technology work? Your media exposure will continue for the rest of your life. This class aims to make you a more informed, critical consumer. (GR)

Did you know???
In 2009-2010 California Community Colleges awarded 85,040 associate degrees.
Source: Community College League of California
**JOUR-170**  Newspaper Writing and Editing Staff  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Advisory: Completion of, or concurrent enrollment in, JOUR-101A  
Accepted For Credit: CSU  
Staff members gather information, write, and edit stories for publication in the college newspaper, the Monitor, and on the Monitor's online edition. They also write columns and editorials. Working as a team, the staff plans and designs each issue. JOUR-170 students are expected to contribute one story per issue. Repeatable = 3 times to a maximum of 9 units for JOUR-170-172 (GR)  

**JOUR-171**  Newspaper Writing and Editing Staff  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Advisory: Completion of, or concurrent enrollment in, JOUR-101A  
Accepted For Credit: CSU  
Staff members gather information, write, and edit stories for publication in the college newspaper, the Monitor, and on the Monitor's online edition. They also write columns and editorials. Working as a team, the staff plans and designs each issue. JOUR-171 students are expected to contribute two stories per issue. Repeatable = 3 times to a maximum of 9 units for JOUR-170-172 (GR)  

**JOUR-172**  Newspaper Writing and Editing Staff  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: Completion of, or concurrent enrollment in, JOUR-101A  
Accepted For Credit: CSU  
Staff members gather information, write, and edit stories for publication in the college newspaper, the Monitor, and on the Monitor's online edition. They also write columns and editorials. Working as a team, the staff plans and designs each issue. JOUR-172 students are expected to contribute three stories per issue. This course is usually reserved for managers and editors. Repeatable = 3 times to a maximum of 9 units for JOUR-170-172 (GR)  

**JOUR-173**  Magazine Writing and Editing Staff  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
In this class, students write stories, take photos, make illustrations, design pages, and produce the yearly college magazine, Midnight. The class provides practical experience for Communication Arts majors and others considering careers in newspapers, magazines, online publications, or public relations. For all students, it offers insight into how a mass medium operates, its internal conflicts and external effects, as well as an opportunity to learn to write effectively and to work harmoniously with others. JOUR-173 students are expected to contribute three stories or graphics per issue. Repeatable = 3 times to a maximum of 9 units for JOUR-173-175 (GR)  

**JOUR-174**  Magazine Writing and Editing Staff  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
In this class, students write stories, take photos, make illustrations, design pages, and produce the yearly college magazine, Midnight. The class provides practical experience for Communication Arts majors and others considering careers in newspapers, magazines, online publications, or public relations. For all students, it offers insight into how a mass medium operates, its internal conflicts and external effects, as well as an opportunity to learn to write effectively and to work harmoniously with others. JOUR-174 students are expected to contribute two stories or graphics per issue. Repeatable = 3 times to a maximum of 9 units for JOUR-173-175 (GR)  

**JOUR-175**  Magazine Writing and Editing Staff  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
In this class, students write stories, take photos, make illustrations, design pages, and produce the yearly college magazine, Midnight. The class provides practical experience for Communication Arts majors and others considering careers in newspapers, magazines, online publications, or public relations. For all students, it offers insight into how a mass medium operates, its internal conflicts and external effects, as well as an opportunity to learn to write effectively and to work harmoniously with others. JOUR-175 students are expected to contribute three stories or graphics per issue. This course is usually reserved for managers and editors. Repeatable = 3 times to a maximum of 9 units for JOUR-173-175 (GR)  

**JOUR-176**  Advertising Staff  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Advisory: BA-129  
Accepted For Credit: CSU  
This course offers practical experience in advertising production related to the student newspaper and magazine. Staff members sell and design ads, maintain regular accounts, and solicit new advertisers. JOUR-176 students are expected to make one ad contact per week. Repeatable = 3 times to a maximum of 9 units for JOUR-176-178 (GR)  

**JOUR-177**  Advertising Staff  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Advisory: BA-129  
Accepted For Credit: CSU  
This course offers practical experience in advertising production related to the student newspaper and magazine. Staff members sell and design ads, maintain regular accounts, and solicit new advertisers. JOUR-177 students are expected to make two ad contacts per week. Repeatable = 3 times to a maximum of 9 units for JOUR-176-178 (GR)  

**JOUR-178**  Advertising Staff  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: BA-129  
Accepted For Credit: CSU  
This course offers practical experience in advertising production related to the student newspaper and magazine. Staff members sell and design ads, maintain regular accounts, and solicit new advertisers. JOUR-178 students are expected to make three ad contacts per week. This course is usually reserved for managers and editors. Repeatable = 3 times to a maximum of 9 units for JOUR-176-178 (GR)
KINESIOLOGY
Division: Exercise Science and Athletics

KIN-240  Theory of Physical Education, Fitness, and Sport
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
This course is designed to introduce students to the fields of physical education, exercise science, and allied health. The history and trends of physical education and the human movement sciences will be discussed. Also included in the class will be the career options covering areas such as exercise physiology, biomechanics, motor learning, sports pedagogy, sports sociology, and related areas in athletic training, sports management, and allied health. (GC)

KIN-241  College Success for Athletes
36.00 hrs lecture
Units: 2.00
Cross-referenced Course: PD-241
Accepted For Credit: CSU
This course is designed for new student-athletes to assist with the adjustment to college level academics and athletics. The focus is on application of learning strategies, academic planning, time management, goal setting, transfer and eligibility guidelines, life skills and study skills. Additionally, this course will promote realistic expectations of college while understanding what is necessary to succeed as an intercollegiate athlete. (GC)

KIN-242  Sociology of Sport
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: SOC-142
Accepted For Credit: CSU
This course will examine the history of sport and its political, social, and economic impact on public opinion. This will include an investigation into the phenomenon of sport including cultural stratification, race, gender, education, economics, politics, and the mass media. (GC)

KIN-243  Sports Marketing
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: BA-143
Accepted For Credit: CSU
This course examines the application of the principles of promotion, sponsorship, sales, revenue, and marketing to the sport and fitness industry. The areas covered will include high school/collegiate athletics, professional sports, and the fitness club industry. (GC)

KIN-244  Sports Management
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: BA-144
Accepted For Credit: CSU
This course provides an overview of professional sport management in North America. The political, historical, social, economic, and cultural impacts of sport management are explored. Topics will include team management, organizational administration, legal issues, public relations, and facility management. Students will become familiar with career opportunities in the sports management field. (GR)

KIN-251  Fitness for Life
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This class is designed for students who wish to understand methods of assessment for cardiovascular fitness, muscular strength and endurance, flexibility, body composition, nutrition, and stress level. These concepts can then be used as a basis for designing and implementing a personal fitness program and increasing awareness regarding enhanced quality of life. (GC)

KIN-256  Sports Performance Testing
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Cross-referenced Course: PTA-119
Accepted For Credit: CSU
This course covers assessment methods commonly used to evaluate athletic ability. It covers anaerobic testing methods used to establish baseline, normative, and developmental data. Testing for specific sports such as basketball, football, soccer, and tennis is also covered. Repeatable = 1 time (GR)

KIN-257  Prevention and Care of Athletic Injuries
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: ENGL-151B and BIOL-103A
Accepted For Credit: CSU & UC
This is a course designed to introduce basic care and prevention of athletic injuries. Concepts will include injury recognition, evaluation, management, and rehabilitation. The practical experience will include adhesive taping and protective padding techniques, determining vital signs, and emergency first aid procedures as applied to athletic injuries. (GR)
KIN-258  Exercise Prescription  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
This course is designed to introduce principles of exercise prescription and strength and conditioning. Topics will include exercise physiology, exercise prescription for special and general populations, free weight and machine exercise techniques, nutrition and weight management, biomechanical concepts, and safety issues related to fitness and strength training. This course will also prepare students for the Personal Trainer Examination. (GR)

KIN-261  Sports Psychology  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU  
This course will develop the connection between the mental and physical aspects of competition and the ways to enhance performance. Stress reduction techniques, goal setting, imagery, and visualization will be covered as well as training methods for both the body and mind. (GC)

KIN-381  Clinical Experiences in Athletic Training I  
54.00 hrs lab  
Units: 1.00  
Advisory: KIN-257  
Accepted For Credit: CSU  
This course provides students with practical exposure to the athletic training room setting. Students will observe and participate under direct supervision in the treatment, evaluation, and rehabilitation of student athletes injured during practices or competitions. Students will practice the application of athletic training techniques and procedures according to protocols established by the athletic trainer. Repeatable = 3 times (CR)

KIN-382  Clinical Experiences in Athletic Training II  
108.00 hrs lab  
Units: 2.00  
Advisory: KIN-257  
Accepted For Credit: CSU  
This course provides students with practical exposure to the athletic training room setting. Students will actively participate under direct supervision in the treatment, evaluation, and rehabilitation of student athletes injured during practices or competitions. Students will practice the application of athletic training techniques and procedures according to protocols established by the athletic trainer. Repeatable = 3 times (CR)

LEARNING SKILLS PROGRAM
Division: Counseling

LSP-101  Learning Skills: Reading and Writing  
54.00 hrs lecture, 18.00 hrs lab  
Units: 3.00  
This course assists Learning Disabled students in developing skills for the successful completion of English courses. Focus is on creating a more thorough understanding of grammatical concepts while strengthening basic writing skills. Compensatory techniques will be taught with an emphasis on multi-modal learning. Not applicable to associate degree. Repeatable = 5 times (GR)

LSP-102  Learning Skills: Quantitative Reasoning  
54.00 hrs lecture  
Units: 3.00  
This course assists Learning Disabled students in developing skills for the successful completion of math courses. Focus is on creating a more thorough understanding of math concepts through practice and multi-modal learning. Not applicable to associate degree. Repeatable = 5 times (GR)

LSP-103  Advanced Writing Fundamentals  
54.00 hrs lecture, 18.00 hrs lab  
Units: 3.00  
Prerequisite: Approval of DSPS counselor  
This course assists students with learning disabilities in building skills in English grammar and usage as needed for writing clear paragraphs and informal essays. Concentration is on raising the level of writing to that necessary for success in mainstream college composition classes. Not applicable to associate degree. Repeatable = 5 times (GR)

LSP-104  Reading Comprehension  
54.00 hrs lecture, 18.00 hrs lab  
Units: 3.00  
Prerequisite: Approval of DSPS counselor  
This course focuses on building reading competency for students with disabilities. The goal is to increase reading proficiency, vocabulary awareness and comprehension/retention skills to the level needed to be successful in college literature and content courses. Not applicable to associate degree. Repeatable = 5 times (GR)

LSP-111  Job Seeking Skills  
18.00 hrs lecture  
Units: 1.00  
This course is for students who are Department of Rehabilitation (DoR) clients involved in the DoR/Ohlone College WorkAbility III (WAIll) partnership. The course provides students with the skills necessary to seek and obtain employment. The course will discuss resume and cover letter writing, interviewing skills, ADA laws and employment rights, goals assessment, workplace behavior, and job retention. Students will complete a portfolio which includes a resume, cover letter, letters of recommendation, and sample application. Not applicable to associate degree. (CR)

LIBRARY SCIENCE
Division: Learning Resources and Academic Technology

LS-101  Steps to Successful Research  
18.00 hrs lecture  
Units: 1.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU & UC  
This course introduces students to the research process. Students choose a topic, design a research strategy, find and evaluate print and non-print sources relating to their topic and create an annotated bibliography as a final project. Students need access to a computer and basic computer literacy skills working in a Windows environment. (CR)
LS-151  Internet for Research
9.00 hrs lecture
Units: 0.50
Cross-referenced Course: CS-151
Advisory: CAOT-153
Accepted For Credit: CSU
This course presents instruction in the use of the Internet as an alternative to traditional college-level learning resources. It will teach skills and strategies for finding and retrieving information on the Internet. (CR)

MATH 101A  Calculus with Analytic Geometry
90.00 hrs lecture
Units: 5.00
Prerequisite: MATH-188
Accepted For Credit: CSU & UC
This course includes review of functions and graphs, elements of analytic geometry, limits, continuity, differentiation of algebraic, trigonometric, logarithmic, exponential, and inverse trigonometric functions, applications of the derivative, and introduction to integration and some applications of the definite integral. (GR)

MATH 101B  Calculus with Analytic Geometry
90.00 hrs lecture
Units: 5.00
Prerequisite: MATH-101A
Accepted For Credit: CSU & UC
This course includes techniques of integration, related applications, infinite series, an advanced treatment of conics, parametric equations, and polar coordinates. (GR)

MATH 101C  Calculus with Analytic Geometry
90.00 hrs lecture
Units: 5.00
Prerequisite: MATH-101B
Accepted For Credit: CSU & UC
This course includes vector analysis, functions of several variables, partial derivatives, multiple integration, integration of vector valued functions, and applications. (GR)

MATH 103  Introduction to Linear Algebra
54.00 hrs lecture
Units: 3.00
Prerequisite: MATH-101B
Accepted For Credit: CSU & UC
This course includes an introduction to linear algebra including vector spaces, matrices, determinants, linear transformations, eigenvectors, techniques of solving systems of equations, and applications. (GR)

MATH 104  Differential Equations
90.00 hrs lecture
Units: 5.00
Prerequisite: MATH-101B
Accepted For Credit: CSU & UC
This course includes the study of the traditional topics in ordinary differential equations as well as series solutions, Laplace transforms, systems of equations, numerical methods, and selected applications. (GR)

MATH 111  Introduction to Matlab
54.00 hrs lecture
Units: 3.00
Prerequisite: MATH-101A
Accepted For Credit: CSU & UC
This course provides students with an introduction to the software package Matlab. Topics include programming, two and three dimensional graphing, data import and export, curve fitting, recursion, and applications to calculus. (GR)

MATH 151  Algebra I
90.00 hrs lecture
Units: 5.00
Prerequisite: MATH-189 or placement evaluation
This course includes the study of operations on algebraic expressions, linear equations and inequalities, graphs of linear equations, systems of equations, exponents, polynomials, factoring, and rational expressions. Not applicable to associate degree. (GR)

MATH 151A  Algebra I (Part 1)
54.00 hrs lecture
Units: 2.50
Prerequisite: MATH-191 or placement evaluation
This course includes the study of operations using signed numbers, equations (two variables) and inequalities, graphs, and an introduction to systems of equations. The course emphasizes problem-solving skills. Not applicable to associate degree. (GR)

MATH 151B  Algebra I (Part 2)
54.00 hrs lecture
Units: 2.50
Prerequisite: MATH-151A
This course includes exponents, polynomials, factoring, rational expressions, and applications. Not applicable to associate degree. (GR)

MATH 152  Algebra II
90.00 hrs lecture
Units: 5.00
Prerequisite: MATH-151, MATH-151A and MATH-151B, or placement evaluation
This course includes the study of systems of equations, relations, functions and their graphs, conic sections, exponential and logarithmic functions, arithmetic and geometric sequences and series, and the binomial theorem. (GR)

MATH 152A  Algebra II (Part 1)
54.00 hrs lecture
Units: 2.50
Prerequisite: MATH-151, MATH-151A and MATH-151B, or placement evaluation
This course includes the study of systems of linear equations, inequalities, radical expressions and equations, problem solving, and complex numbers. (GR)

MATH 152B  Algebra II (Part 2)
54.00 hrs lecture
Units: 2.50
Prerequisite: MATH-152A or placement evaluation
This course includes the study of relations, functions, and their graphs, quadratic functions and equations, exponential and logarithmic functions, conic sections, sequences, series, sigma notation, and the binomial expansion. (GR)
MATH-153 Intermediate Algebra  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: MATH-151, MATH-151A and MATH-151B, or placement evaluation  
This course includes the study of relations and functions and their graphs, quadratic equations, parabolas, exponential and logarithmic functions, and sigma notation. (GR)

MATH-155 Math for the Associate Degree  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: MATH-151 or placement evaluation  
This course meets the minimum general education mathematics requirement. It uses the concepts of beginning algebra (Algebra I), problem solving skills, and analytical thinking to investigate areas such as consumer concerns, recreational math, probability, math in sports, statistics, geometry, trigonometry, and math in the work place. (GR)

MATH-156 Math for Liberal Arts  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: MATH-152, MATH-153, or placement evaluation  
Accepted For Credit: CSU & UC  
This course is designed for liberal arts and education students and uses the concepts learned in Intermediate Algebra. It is a survey course of college mathematics with emphasis placed on the nature of mathematics, problem solving, and thinking patterns. Topics covered will be selected from the areas of sets and logic, methods of proof, elements of probability and statistics, geometry, systems of numeration, math of finance, basic trigonometry and calculus, math history, and linear programming. (GC)

MATH-159 Introduction to Statistics  
90.00 hrs lecture  
Units: 5.00  
Prerequisite: MATH-152, MATH-153, or placement evaluation  
Advisory: ENGL-163  
Accepted For Credit: CSU & UC  
This course examines the elements of probability, binomial and normal distributions, measures of location, measures of variation, hypothesis testing, point and interval estimation, small sample tests, linear correlation, analysis of variance, and use of technology for statistical applications. (GR)

MATH-163 Discrete Mathematics for Computers  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: CS-113  
Prerequisite: MATH-188  
Advisory: MATH-101A and MATH-101B  
Accepted For Credit: CSU & UC  
This course is designed for majors in mathematics and computer science. It is the first course for students in discrete mathematics. A main goal of this course is to teach students to think abstractly. This requires that students learn to use logically valid different methods of proof including mathematical induction. Topics include logic, proofs, sets, relations, recurrence relations, graphs, trees, and combinatorics. Applications include Boolean Algebra, logic circuits, O-Notation, and Automata. (GC)

MATH-166 Finite Mathematics  
72.00 hrs lecture  
Units: 4.00  
Prerequisite: MATH-152  
Accepted For Credit: CSU & UC  
This course includes the core concepts of set theory, systems of linear equations and inequalities, linear programming, matrices, math of finance with applications to business and social sciences, and an introduction to probability and decision making. (GR)

MATH-167 Calculus for Business and Social Science  
90.00 hrs lecture  
Units: 5.00  
Prerequisite: MATH-152  
Accepted For Credit: CSU & UC  
This course includes the concepts of relations, algebraic, exponential and logarithmic functions, differential and integral calculus, functions of several variables and partial derivatives, with applications to business, finance, and the social sciences. (GR)

MATH-171 Mastering Math Skills: Fractions  
27.00 hrs lab  
Units: 0.50  
Students will refresh their knowledge of operations with fractions and the applications of fractions. The course is intended for students currently enrolled in MATH-151, MATH-151A, or MATH-151B who feel they will benefit from a review of this material. Not applicable to associate degree. Repeatable = 2 times (GC)

MATH-172 Mastering Math Skills: Whole Numbers, Decimals, and Percentages  
27.00 hrs lab  
Units: 0.50  
Students will refresh their knowledge of operations with whole numbers, decimals, and percentages and their applications. The course is intended for students currently enrolled in MATH-151, MATH-151A, MATH-151B who feel they will benefit from a review of this material. Not applicable to associate degree. Repeatable = 2 times (GC)

MATH-181 Trigonometry  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: MATH-152 or placement evaluation  
Accepted For Credit: CSU  
This course focuses on understanding the definitions and principles of trigonometry and their applications to problem-solving. (GR)

MATH-188 Pre-Calculus  
90.00 hrs lecture  
Units: 5.00  
Prerequisite: MATH-181  
Accepted For Credit: CSU & UC  
This course is a review of the concepts and skills necessary for Calculus. The course includes the theory and graphing of elementary, exponential, and logarithmic functions; a review of trigonometry; systems of linear and quadratic equations; and an introduction to sequences and series. (GR)

MATH-190 Basic Mathematics  
54.00 hrs lecture  
Units: 3.00  
This course includes a study of the arithmetic of whole numbers, fractions, and decimals; applications of arithmetic-ratio, percents, word problems, and U.S. and metric systems of measurement; statistical graphs, measurement of central tendency and word problems employing those concepts. Not applicable to associate degree. (GR)
MATH-190A  Basic Mathematics (Self-Paced)
27.00 hrs lecture
Units: 1.50
This self-paced course covers the arithmetic of whole numbers, integers, fractions, and decimals. Completion of MATH-190A and MATH-190B is equivalent to MATH-190. Not applicable to associate degree. (GR)

MATH-190B  Basic Mathematics (Self-Paced)
27.00 hrs lecture
Units: 1.50
Prerequisite: MATH-190A
This self-paced course covers ratios, proportions, percents, the U.S. customary and metric systems of measurement, statistical graphs, measurements of central tendency, and word problems employing those concepts. Completion of MATH-190A and MATH-190B is equivalent to MATH-190. Not applicable to associate degree. (GR)

MATH-191  Pre-Algebra
54.00 hrs lecture
Units: 3.00
Prerequisite: MATH-190, MATH-190B, or placement evaluation
This course includes a study of signed integers, fractions, and decimals; variables and problem-solving; and applications in geometry. Also, this course covers study skills. Not applicable to associate degree. (GR)

MATH-196  Geometry
54.00 hrs lecture
Units: 3.00
Prerequisite: MATH-151
Students will study geometric concepts, deductive proofs, and logical arguments, and develop skills to solve problems and construct proofs. The topics include lines, angles, circles, triangles, parallelism, similarity, congruency, areas, volumes, and logic. (GR)

MATH-199  Success in Math
18.00 hrs lecture, 18.00 hrs lab
Units: 1.00
Corequisite: Concurrent enrollment in another Math class
This course is designed to assist students in learning mathematics through the development of successful study skills and exam taking methods. Students will also be provided with skills necessary to overcome any math anxieties they may have. This course addresses learning styles, reading math textbooks, completing homework assignments, and taking notes. Not applicable to associate degree. Repeatable = 2 times (GR)

MATH-365  Supervised Tutoring
90.00 hrs lab
Units: 0.00
Prerequisite: Instructor or counselor referral
This course provides students with individualized tutoring. It assists students to develop a learning methodology in a subject. It includes diagnosis and consultation with tutorial coordinator and supervised tutoring by part-time instructional aides and/or student tutors. Not applicable to associate degree. Repeatable = 3 times (NG)

MULTIMEDIA

Division: Fine Arts, Business, and Communication Studies

MM-102A  Introduction to Multimedia
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: CS-101
Advisory: CS-102, CS-104A; or CS-160A, ART-160A, BA-160A, GA-160A
Accepted For Credit: CSU
Explore technical, artistic, and creative ways to produce animations, images, and basic interactive multimedia projects using industry standard software such as Photoshop and Flash. Topics include typography, design principles, multimedia terminology, copyright issues, image and sound manipulation. (GC)

MM-103A  Introduction to Flash: Animation
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Learn the essential tools in Flash for creating graphics, importing artwork and sound. Learn different techniques to produce animations for the Web. Repeatable = 1 time (GC)

MM-103B  Intermediate Flash: Interactivity
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Prerequisite: MM-103A
Create interactive projects for the Web. Learn basic ActionScript to control the timeline, properties of symbols, and user input. Other topics include optimizing flash movies for the Web and creating preloaders. Repeatable = 1 time (GC)

MM-104  Advanced Interactivity in Flash
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: MM-103A
Advanced techniques in Flash. Learn design principles and ActionScript, the powerful programming language in Flash, to add complex interaction to your projects. No prior programming experience is required; however, familiarity with Flash is essential. Repeatable = 2 times (GR)

MM-105  Web Site Design
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Accepted For Credit: CSU
Students will learn design principles to create web sites of their choice using the latest software applications. Students will also learn to analyze web sites created in a wide range of fields and various cultures. Topics include CSS, typography, color, copyright issues, accessibility, contracts, digital imaging optimization, and techniques to display sound, animation and video. Repeatable = 2 times (GC)

MM-106  Advanced Web Site Design
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: MM-105
Accepted For Credit: CSU
Learn advanced techniques in web site design employing industry standard software like Dreamweaver, Photoshop and Fireworks. This course focuses on CSS for layout, style, and navigation. Other topics include web graphics, forms, Ajax within the Spry framework, dynamic image galleries, accessibility, and professional practices in web site design. (GC)
MM-107  Introduction to Dreamweaver  
4.50 hrs lecture, 13.50 hrs lab  
Units: 0.50  
This is an introductory course in creating Web pages using Dreamweaver software. Students will create Web sites that include graphics, tables, and basic CSS. Repeatable = 1 time (GC)

MM-108  Visual Communication  
54.00 hrs lecture, 36.00 hrs lab  
Units: 3.00  
Cross-referenced Course: COMM-108  
Accepted For Credit: CSU  
This course explores the fundamental elements of visual communication presented through lectures and applied through studio experiences. Examine the methods of visual communication from Gutenberg to Google, analyzing examples in a variety of visual forms including print (newspaper and magazine), graphics, illustrations, photographs, video, motion pictures, and digital media. (GR)

MM-110  Digital Video for Web and DVD  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Cross-referenced Course: BRDC-110  
Advisory: MM-102A  
Accepted For Credit: CSU  
Students learn techniques to shoot, edit, and set the correct parameters to upload short videos to the Internet or create a DVD. Training in the use of digital cameras, microphones, lights, and video editing software. Topics include camera shots, transitions, composition, video file formats, compression, special effects, and producing video for You Tube, Web sites, and DVD. Repeatable = 2 times (GR)

MM-114  Textures for 3D  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: MM-116 or MM-102A  
Students will learn different techniques to enhance 3D objects and environments using 3D modeling and 2D paint software. The topics covered are painting textures, manipulating digital images, texture mapping, lighting techniques, camera shots, applying principles of art and design to 3D imagery, and rendering images for multimedia and print. Repeatable = 1 time (GC)

MM-115  3D Animation  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: CS-101  
Accepted For Credit: CSU  
This course will focus on the operation of 3D Computer Animation Software. Students will create their own 3D animations and present their work. Repeatable = 3 times (GC)

MM-116  3D Modeling  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: MM-102A  
Accepted For Credit: CSU  
Students will learn different techniques to model objects and environments using a 3D modeling software. The topics covered are designing characters, modeling, texture mapping, lighting techniques, camera shots, 3D scene layout, and rendering images for different multimedia applications. Repeatable = 1 time (GC)

MM-117  Advanced 3D Modeling and Animation  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Prerequisite: MM-115 or MM-116  
Accepted For Credit: CSU  
Students will learn advanced techniques in modeling and animation using 3D modeling software. The topics include advanced modeling tools, texture mapping, lighting effects, particle systems, camera effects, and advanced animation using inverse kinematics. Repeatable = 1 time (GC)

MM-118  Introduction to Video Game Design  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU  
This class focuses on the process of planning, developing, and creating content for video games. Students will gain an understanding of the video game industry, and they will learn how to design characters, levels, and design documents. (GC)

MM-119  Video Game Development  
36.00 hrs lecture, 108.00 hrs lab  
Units: 3.00  
Prerequisite: MM-116 and MM-118  
Accepted For Credit: CSU  
This class focuses on producing video games using 3D software and game engines. Students work in a team environment and follow production practices employed in the video game industry. Repeatable = 1 time (GC)

MM-160  Multimedia Portfolio Development  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Prerequisite: MM-105  
Advisory: MM-102B  
Accepted For Credit: CSU  
This course will focus on the development of student portfolios of their work for presentation on CD-ROM and the World Wide Web. Students will review the “cultures” of the multimedia industry, review job roles and responsibilities, go on field trips, and critique student work. (GC)

MM-162  XHTML  
36.00 hrs lecture, 108.00 hrs lab  
Units: 4.00  
Cross-referenced Course: CS-162  
Advisory: CS-101 or CS-101A  
Accepted For Credit: CSU  
Students will use XHTML to create multimedia Web pages using hypertext links, tables, frames, forms, cascading style sheets (CSS), JavaScript, and JavaScript objects and events. Other topics include Dynamic Hypertext Markup Language (DHTML) techniques and working with eXtensible Markup Language (XML) and eXtensible Stylesheet Language (XSL). Repeatable = 1 time (GC)

MM-195A1  Work Experience Education – Vocational  
75.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

MM-195A2  Work Experience Education – Vocational  
150.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)
MUS 102 Music Appreciation
54.00 hrs lecture, 18.00 hrs lab
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is an introductory course in music for students without previous formal training in music, listening, or performance. The course is designed to provide understanding and enjoyment through informed listening, analysis, and discernment of musical element, forms, and repertoire. The material selected is from all styles, periods, and cultures. (GR)

MUS 103 Fundamentals of Music
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
This is a basic course for students investigating the study of musical notation, keys, scales, and chords, along with other elements of basic musicianship. This course is useful in working with children and youth. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS 104 Music of World Cultures
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
A survey of traditional and contemporary music from around the world including, but not limited to: Africa, India, Indonesia, South/Central America, Caribbean, Europe, China, Japan, and the United States. This course will deal with the traditional instruments and ensembles, as well as vocal techniques and performance practices particular to each region. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)

MUS 110A Music Theory and Harmony
54.00 hrs lecture
Units: 3.00
Corequisite: MUS-111A
Accepted For Credit: CSU & UC
This course is a study of notation in major and minor scales, tonality, chord construction, rhythm, and non-harmonic tones. This course serves as an introduction to more advanced study of music theory and harmony. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS 110B Harmony
54.00 hrs lecture
Units: 3.00
Prerequisite: MUS-110A
Corequisite: MUS-111B
Accepted For Credit: CSU & UC
This course includes the study of diatonic harmony in major keys, major and minor triads and inversions, modulation, non-harmonic tones, and secondary dominants. The course includes writing for the piano using the phrase, period, and two- and three-part song form. This course is the second in the four-semester theory sequence. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)

MUS 108 Song Writing
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course will expose students to the compositional techniques inherent in the process of commercial song writing. Students will learn to write songs, listen to their projects on the computer, edit the songs using standard music sequencing and notational software, compare the outcomes with standard professional compositional criteria, and record the final edited projects. Repeatable = 1 time (GC)

MUS 110A Music Theory and Harmony
54.00 hrs lecture
Units: 3.00
Corequisite: MUS-111A
Accepted For Credit: CSU & UC
This course is a study of notation in major and minor scales, tonality, chord construction, rhythm, and non-harmonic tones. This course serves as an introduction to more advanced study of music theory and harmony. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS 110B Harmony
54.00 hrs lecture
Units: 3.00
Prerequisite: MUS-110A
Corequisite: MUS-111B
Accepted For Credit: CSU & UC
This course includes the study of diatonic harmony in major keys, major and minor triads and inversions, modulation, non-harmonic tones, and secondary dominants. The course includes writing for the piano using the phrase, period, and two- and three-part song form. This course is the second in the four-semester theory sequence. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)
MUS-110C  Advanced Harmony
54.00 hrs lecture
Units: 3.00
Prerequisite: MUS-110A and MUS-110B
Corequisite: MUS-111C
Accepted For Credit: CSU & UC
This course is a study of chromatic harmony with particular emphasis on the chronological development of harmonic and contrapuntal techniques from the 16th through the 19th centuries. This course is the third in the four-semester theory sequence. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)

MUS-110D  Advanced Harmony
54.00 hrs lecture
Units: 3.00
Prerequisite: MUS-110C
Corequisite: MUS-111D
Accepted For Credit: CSU & UC
This course is a study of compositional materials and techniques from the 19th century to the present. This course is the fourth of a four-semester theory sequence. (GR)

MUS-111A  Musicianship
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Corequisite: MUS-110A
Accepted For Credit: CSU & UC
This course develops facility in sight singing, ear training, and the ability to take musical dictation. (GR)

MUS-111B  Musicianship
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: MUS-111A
Corequisite: MUS-110B
Accepted For Credit: CSU & UC
This course develops facility in sight singing, ear training, and the ability to take musical dictation. (GR)

MUS-111C  Advanced Musicianship
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: MUS-111B
Corequisite: MUS-110C
Accepted For Credit: CSU & UC
This course covers sight singing and reading of materials employed in MUS-110C. (GR)

MUS-111D  Advanced Musicianship
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: MUS-111C
Corequisite: MUS-110D
Accepted For Credit: CSU & UC
This course covers sight singing and reading of materials employed in MUS-110D. (GR)

MUS-112A  Pro Tools 101
54.00 hrs lecture, 18.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Introduction to Pro Tools covers basic Pro Tools principles necessary to complete a Pro Tools project. (GR)

MUS-112B  Pro Tools 110
54.00 hrs lecture, 18.00 hrs lab
Units: 3.00
Prerequisite: MUS-112A
Accepted For Credit: CSU
This course provides a more detailed look at the ProTools system. This course covers all the key concepts and skills needed to operate a ProTools system. (GR)

MUS-112C  Pro Tools 201
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: MUS-112A and MUS-112B
Accepted For Credit: CSU
This course covers the core concepts and skills needed to operate a Digidesign Pro Tools/HD system in a professional studio environment. Topics include advanced selection and editing techniques, using automation; mixing; in-depth plug-in usage, and more. (GR)

MUS-113  Studio Recording
54.00 hrs lecture, 18.00 hrs lab
Units: 3.00
Cross-referenced Course: BRDC-132
Accepted For Credit: CSU
This course is an introduction to the recording studio. The course follows the path of audio signals through the microphone, mixer, signal processors, digital audio workstation (DAW), and monitoring stations. The course explores various types of microphones, the functions of virtual mixing boards, the characteristics of plug-in signal processors, and recording techniques. (GR)

MUS-114  Create a CD
36.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course covers post-recording CD creation and offers students a chance to learn and explore audio file editing and mastering, CD burning, Mp3 ripping, and complete jewel box artwork. Audio source material will include CD tracks, Mp3’s, and various analogue tape or phono recordings. Artwork will be created using Adobe Photoshop and Discus. Repeatable = 3 times (GC)
MUS-116  Sound Reinforcement and Live Recording
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: MUS-112A
The lecture component covers basic techniques for live concert sound reinforcement, including basic sound system theory/applications and study of individual sound system component operation (microphones, mixers, effects, power amplifiers, speaker systems). Lab presents field opportunities for students to apply knowledge in concert situations. Repeatable = 1 time (GR)

MUS-121  The History of Jazz
54.00 hrs lecture, 18.00 hrs lab
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course involves the study of jazz, its historical background, and its development in the world. The course is open to all students. (GC)

MUS-122  A History of Early Rock and Roll: Music and Culture of the 1950’s
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-141, IS-142
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course presents a historical overview of the emergence of rock and roll music as a cultural phenomenon in the U.S. The major figures of the 1950’s – Bill Haley, Fats Domino, Elvis Presley, Chuck Berry, and Little Richard – will be studied alongside the major historical events and trends that shaped this decade. The course is designed to gradually develop a student’s appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and roll and American culture. The course will chart how rock and roll simultaneously reflects and affects society by grounding the key people, events, and songs within their historical context. (GC)

MUS-123  History of Rock and Roll: Music and Culture of the 1960’s
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-142, IS-143
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course charts the evolution of Rock and Roll music from the late 1950’s through the 1960’s, focusing on the history of the period as well as a detailed analysis of the stylistic development of this important musical genre. The course is designed to gradually develop students’ appreciation for this art form while simultaneously exposing the symbiotic interrelationship between rock and American society. (GC)

MUS-125  History of Rock and Roll: Music and Culture Since 1970
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-143
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course looks at the development of popular music and its relationship to general culture and society since 1970. It will include identification and analysis of art rock, disco, new wave, reggae, rap, hip-hop, worldbeat, and other musical genres through online reading, lectures, and in-class demonstrations. (GR)

MUS-160A  Beginning Class Piano
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This course consists of class piano lessons for beginners and students who wish to develop elementary skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-160B  Class Piano
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-160A
Accepted For Credit: CSU & UC
This course consists of class piano lessons for beginners and students who wish to develop elementary skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-160C  Class Piano
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-160B
Accepted For Credit: CSU & UC
This course consists of intermediate level class piano lessons for students who wish to develop skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-160D  Class Piano
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-160C
Accepted For Credit: CSU & UC
This course consists of intermediate level class piano lessons for students who wish to develop skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)

MUS-160E  Piano Repertoire
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-160D
Accepted For Credit: CSU & UC
This course consists of intermediate to advanced level class piano lessons for students who wish to develop skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)
MUS-161F Piano Repertoire
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-160E
Accepted For Credit: CSU & UC
This course consists of intermediate to advanced level class piano lessons for students who wish to develop skill at the keyboard. It is required for music majors and recommended for teaching credential applicants. It is also recommended for all students interested in learning the piano for fun. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GR)

MUS-161A Class Guitar
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
This course is group instruction giving students the opportunity to learn song accompaniment, solo and ensemble experience playing the guitar. The literature represents all stylistic periods. Students must provide their own guitar. (GC)

MUS-161B Class Guitar
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music for MUS-161B
Accepted For Credit: CSU & UC
This course is group instruction giving students the opportunity to learn song accompaniment, solo and ensemble experience playing the guitar. The literature represents all stylistic periods. Students must provide their own guitar. (GC)

MUS-161C Class Guitar
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music for MUS-161C
Accepted For Credit: CSU & UC
This course is group instruction giving students the opportunity to learn song accompaniment, solo and ensemble experience playing the guitar. The literature represents all stylistic periods. Students must provide their own guitar. (GC)

MUS-161D Class Guitar
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music for MUS-161D
Accepted For Credit: CSU & UC
This course is group instruction giving students the opportunity to learn song accompaniment, solo and ensemble experience playing the guitar. The literature represents all stylistic periods. Students must provide their own guitar. (GC)

MUS-161E Class Guitar
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music for MUS-161E
Accepted For Credit: CSU & UC
This course is group instruction giving students the opportunity to learn song accompaniment, solo and ensemble experience playing the guitar. The literature represents all stylistic periods. Students must provide their own guitar. (GC)

MUS-161F Class Guitar
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music for MUS-161F
Accepted For Credit: CSU & UC
This course is group instruction giving students the opportunity to learn song accompaniment, solo and ensemble experience playing the guitar. The literature represents all stylistic periods. Students must provide their own guitar. (GC)

MUS-162A Class Voice – Beginning
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-160A
Accepted For Credit: CSU & UC
This course will offer group instruction in vocal production with emphasis on solo literature. Many common vocal problems will be identified and analyzed through classroom participation and discussion utilizing vocal literature and art songs. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-162B Class Voice – Beginning
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Prerequisite: MUS-162A
Accepted For Credit: CSU & UC
This course will offer group instruction in vocal production with emphasis on solo literature. Many common vocal problems will be identified and analyzed through classroom participation and discussion utilizing vocal literature and art songs. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-162C Class Voice – Intermediate
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Prerequisite: MUS-162B
Accepted For Credit: CSU & UC
In this course students receive individual instruction in vocal performance with emphasis on solo and small ensemble literature. Students will practice correct tone production, diction, stage presence, and style interpretation. Vocal problems are identified and corrected while students study literature consisting of standard vocal repertoire. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-162D Class Voice – Intermediate
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Prerequisite: MUS-162C
Accepted For Credit: CSU & UC
In this course students receive individual instruction in vocal performance with emphasis on solo and small ensemble literature. Students practice correct tone production, diction, stage presence, and style interpretation. Vocal problems are identified and corrected while students study literature consisting of standard vocal repertoire. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-162E Vocal Repertoire
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Prerequisite: MUS-162D
Accepted For Credit: CSU & UC
In this course students receive individual instruction in vocal performance with emphasis on solo and small ensemble literature. Students practice in correct tone production, diction, and stage presence. Style interpretation will be stressed in each lesson. Vocal problems are identified and corrected while students study literature consisting of standard vocal repertoire. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)
MUS-162F Vocal Repertoire
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Prerequisite: MUS-162E
Accepted For Credit: CSU & UC
In this course students receive individual instruction in vocal performance with emphasis on solo and small ensemble literature. Students practice in correct tone production, diction, and stage presence. Style interpretation will be stressed in each lesson. Vocal problems are identified and corrected while students study literature consisting of standard vocal repertoire. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-163A Woodwind Instruments
(Flute, Saxophone, Clarinet, Oboe, Bassoon)
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This course involves class instruction on all orchestral-woodwind instruments. MUS-163A is open to all students. (GC)

MUS-163B Woodwind Instruments
(Flute, Saxophone, Clarinet, Oboe, Bassoon)
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-163A
This course involves class instruction on all orchestral-woodwind instruments. (GC)

MUS-163C Woodwind Instruments
(Flute, Saxophone, Clarinet, Oboe, Bassoon)
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-163B
This course involves class instruction on all orchestral-woodwind instruments. (GC)

MUS-163D Woodwind Instruments
(Flute, Saxophone, Clarinet, Oboe, Bassoon)
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-163C
This course involves class instruction on all orchestral-woodwind instruments. (GC)

MUS-164A Brass Instruments
(Horn, Trumpet, Trombone, Tuba)
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This course involves class instruction on all orchestral-brass instruments. MUS-164A is open to all students. No experience is necessary. (GC)

MUS-164B Brass Instruments
(Horn, Trumpet, Trombone, Tuba)
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-164A
This course involves class instruction on all orchestral-brass instruments. (GC)

MUS-164C Brass Instruments
(Horn, Trumpet, Trombone, Tuba)
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-164B
Accepted For Credit: CSU & UC
This course involves class instruction on all orchestral-brass instruments. (GC)

MUS-164D Brass Instruments
(Horn, Trumpet, Trombone, Tuba)
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-164C
Accepted For Credit: CSU & UC
This course involves class instruction on all orchestral-brass instruments. (GC)

MUS-165A Percussion Instruments
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This course involves class instruction on all orchestral-percussion instruments. MUS-165A is open to all students. No experience is necessary. (GC)

MUS-165B Percussion Instruments
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-165A
Accepted For Credit: CSU & UC
This course involves class instruction on all orchestral-percussion instruments. (GC)

MUS-165C Percussion Instruments
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-165B
Accepted For Credit: CSU & UC
This course involves class instruction on all orchestral-percussion instruments. (GC)

MUS-165D Percussion Instruments
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Advisory: MUS-165C
Accepted For Credit: CSU & UC
This course involves class instruction on all orchestral-percussion instruments. (GC)

MUS-166A Applied Music
18.00 hrs lecture, 18.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This course involves individual instruction in voice, piano, guitar, or other traditional orchestral instruments. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)

MUS-166B Applied Music
18.00 hrs lecture, 18.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This course involves individual instruction in voice, piano, guitar, or other traditional orchestral instruments. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. (GC)
MUS-351 Performance Ensembles
18.00 hrs lecture, 18.00 hrs lab
Units: 1.00
Prerequisite: Demonstrate ability to read music
Accepted For Credit: CSU & UC
This course is the study and performance of vocal and/or instrumental ensemble literature, both jazz and classical. Performers participate in small ensembles of varied instrumentation throughout each semester. Attendance at scheduled public performances is required. This course is required of all instrumental music majors each semester of attendance. Repeatable = 3 times (GC)

MUS-345 College Chorus
18.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: Audition
Accepted For Credit: CSU & UC
This course is an audition-only choir ensemble of trained community/campus singers who specialize in choral music from all eras of Western European music history. The choir is limited in size, but enrollment is open to all qualified singers. Attendance at all rehearsals and concerts is required. Repeatable = 3 times (GC)

MUS-356 Community Chorale
54.00 hrs lab
Units: 1.00
Accepted For Credit: CSU
This course is a large, “oratorio” style choir designed for the campus/community singer. The course is non-audition choir for those interested in singing with a large ensemble. Repeatable = 3 times (GC)

MUS-367 Women’s Chorus
54.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This choir is open to all female members of the college and the community. The course will concentrate on music designed for this gender-specific ensemble. Students will be required to attend all rehearsals and concerts programmed for this group. Little or no prior choral experience is needed. Repeatable = 3 times (GC)
MUS-368  Men’s Chorus
54.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This choir is open to all male members of the college and the community. The course will concentrate on music designed for this gender-specific ensemble. Students will be required to attend all rehearsals and concerts programmed for this group. Little or no prior choral experience is needed. Repeatable = 3 times (GC)

MUS-369  Jazz, Rock, Popular, Blues Piano
18.00 hrs lecture, 36.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This course is a basic techniques and forms study of the applied and improvisation techniques of Jazz, Rock, Pop, Fusion, and Blues piano. Repeatable = 3 times (GR)

MUS-370  Symphonic Band
54.00 hrs lab
Units: 0.50
Prerequisite: Ability to read music
Accepted For Credit: CSU & UC
This course includes the study and performance of large scale symphonic band literature. Emphasis will be placed on major composer repertoire, scored for an ensemble with multiple part duplication. Attendance at scheduled rehearsals and performances is required. Repeatable = 3 times (GC)

MUS-371  Mixed Wind Ensemble
54.00 hrs lab
Units: 0.50
Prerequisite: Ability to read music
Accepted For Credit: CSU & UC
This course includes the study and performance of “one player per part” wind literature. Emphasis will be placed on solo preparation and execution. Attendance at scheduled rehearsals and performances is required. Repeatable = 3 times (GC)

MUS-374  Community Orchestra
54.00 hrs lab
Units: 0.50
Prerequisite: Demonstrate ability to read music
Accepted For Credit: CSU & UC
This course features the study and performance of both chamber and full symphonic orchestra repertoire. The literature represents all stylistic periods. Repeatable = 3 times (GC)

MUS-380  Musical Theatre Workshop I (Principals)
54.00 hrs lab
Units: 1.00
Prerequisite: Audition and casting role in current musical
Accepted For Credit: CSU & UC
This workshop is designed to familiarize and teach students the principles and complexities involved in the preparation and production of a dramatic musical performance. Specific instruction will be given in the movement and music for the leading members of the cast. Repeatable = 3 times (GC)

MUS-381  Musical Theatre Workshop II (Chorus)
54.00 hrs lab
Units: 1.00
Prerequisite: Audition and casting role in current musical
Accepted For Credit: CSU & UC
This workshop is designed to familiarize and teach students the principles and complexities involved in the preparation and production of a dramatic musical performance. Specific instruction will be given in movement and music for members of the chorus. Repeatable = 3 times (GC)

MUS-382  Musical Theatre Workshop III (Instrumental)
54.00 hrs lab
Units: 0.50
Prerequisite: Demonstrate ability to read music
Accepted For Credit: CSU & UC
This workshop is designed to familiarize and teach students the principles and complexities involved in the preparation and production of a dramatic musical performance from the perspective of the “pit musician.” Repeatable = 3 times (GC)

MUS-394  Madrigals
54.00 hrs lab
Units: 1.00
Prerequisite: Audition only
Advisory: Ability to sight read music
Accepted For Credit: CSU & UC
This course is an audition-only choir ensemble of trained community/campus singers who specialize in choral music from the “show choir/vocal jazz choir” repertoire. Repeatable = 3 times (GC)

NURSING
Division: Health Sciences and Environmental Studies

NUR-117  Critical Thinking Development-Intensive
27.00 hrs lab
Units: 0.50
Corequisite: Enrollment in the Nursing Program (NUR-301 through NUR-307)
This course is designed for students concurrently enrolled in the Registered Nursing program. This course focuses on developing and/or enhancing critical thinking skills through improving online test-taking skills with assessment techniques and repetitive testing; virtual clinical excursions that integrate problem-solving and clinical prioritization; and application of theory to the clinical setting. Not applicable to associate degree. Repeatable = 3 times (GC)

NUR-118  Strategies for Success
9.00 hrs lecture
Units: 0.50
This course introduces basic study skills necessary for success in the nursing program. Understanding test-taking format and practice tests with NCLEX-type questions will be offered to improve student test-taking success. Not applicable to associate degree. Repeatable = 3 times (GC)

NUR-119  Strategies for the RN Student
36.00 hrs lecture
Units: 2.00
The course will provide an introduction to the role of the registered nurse. Students will acquire critical thinking, time management, finance management, study and life skills necessary for RN student success. Repeatable = 2 times (GC)
NUR-301  Foundations of Nursing
54.00 hrs lecture, 135.00 hrs lab
Units: 5.50
Prerequisite: Admission to the Registered Nursing program
Advisory: CFS-109; PSY-108; SPCH-101 or SPCH-103 must be completed by the end of the second semester of the Registered Nursing program.
Accepted For Credit: CSU
Students are introduced to the theory and practice of nursing based on the adaptation model. A focus of this course is assessment of patients' physical and psychological adaptation to health and illness across the adult life span, including variations for the geriatric client. The health-illness continuum is explored within the context of the health care delivery system. Common health problems, which adult and geriatric clients have developed adaptive responses, are introduced. Students begin the socialization process into the role of the registered nurse. A special emphasis is placed on the nurse as communicator and critical thinker in a culturally diverse setting. The definition of cultural diversity includes ethnic, cultural, and psychological effects in response to wellness, illness, health practices, and value systems among cultural groups. This course focuses on assessing, developing, implementing, and evaluating a plan of care that respects the individual's cultural beliefs related to health care and illness, use of health care delivery systems, communication differences, and barriers such as cultural groups, variances in time, and personal space. Simulated practice of fundamental nursing skills in a multimedia setting and utilization of low fidelity mannequins is included. Clinical application of both theory and skills occurs in the hospital. (GR)

NUR-302  Nursing Care of the Medical-Surgical Patient I
54.00 hrs lecture, 135.00 hrs lab
Units: 5.50
Prerequisite: NUR-301
Advisory: CFS-109; PSY-108; SPCH-101 or SPCH-103 must be completed by the second semester of the nursing program
Accepted For Credit: CSU
The focus of this course is advanced concepts in nursing care of the medical-surgical patient experiencing chronic physical and psychological changes related to cardiovascular, respiratory, endocrine-protective, and ingestion and elimination disorders. Issues surrounding chronicity and nursing care of high-risk population will be explored. Students are introduced to the nursing role with the pre-operative, intra-operative, and post-operative patient. Pharmacology is expanded in this course and addressed in each subsequent course. The course will focus on assessing, developing, implementing, and evaluating a plan of care that respects the individual's cultural beliefs related to health care practices of the multicultural individual experiencing chronic disease. Simulated practice of nursing skills is in a multimedia setting and utilization of low fidelity mannequins is included. Clinical application of both theory and skills occurs in the hospital. (GR)

NUR-303  Nursing Care of Women and Children
72.00 hrs lecture, 216.00 hrs lab
Units: 8.00
Prerequisite: NUR-302
Advisory: CFS-109; PSY-108; SPCH-101 or SPCH-103 must be completed by the end of the second semester of the nursing program
Accepted For Credit: CSU
The focus of this course is on the nursing process and adaptation model as it relates to the childbearing, child rearing family. The nursing roles of provider and manager of care and as member of the profession are explored in meeting the needs of patients in women's health care, labor and delivery, post-partum, the newborn nursery, and pediatrics. Lecture classes are strongly augmented by discussion and extensive video and computer program components. The content includes pathophysiology, nursing implications of diagnostic tests, and related pharmacology. Students assess patients, identify nursing diagnosis, implement and evaluate nursing interventions to promote adaptive responses in women and children experiencing alterations in physiologic and psychosocial modes. The course focuses on assessing, developing, implementing, and evaluating a plan of care that respects the individual's cultural and ethnic childbearing beliefs regarding perception of pregnancy, beliefs about labor and delivery, and multicultural practices in the post-partum care of the mother and the newborn. Additionally, this course focuses on assessing, developing, implementing, and evaluating a plan of care that respects the individual's cultural beliefs related to childbearing that have an impact on the hospitalized child and his family; cultural responses to child abuse and the child with congenital anomalies; and multicultural education of families. Simulated practice of nursing skills in a multimedia setting with the use of low fidelity mannequins is included. Clinical application of both theory and skills occurs in the hospital and community setting. (GR)

NUR-304  Nursing Care of the Medical-Surgical Patient II
45.00 hrs lecture, 135.00 hrs lab
Units: 5.00
Prerequisite: NUR-303, CFS-109, and PSY-108
Accepted For Credit: CSU
The focus of this course is advanced concepts in nursing care of the medical-surgical patient experiencing acute physical and psychological changes related to cardiovascular, respiratory, endocrine-protective, and ingestion and elimination disorders. Issues surrounding acute nursing care of high-risk population and the complexity of oncology nursing will be explored. Students will continue to learn the nursing role with the pre-operative, intra-operative, and post-operative patient. Pharmacology is expanded in this course and addressed in each subsequent course. The course will focus on assessing, developing, implementing, and evaluating a plan of care that respects the individual's cultural beliefs related to health care practices of the multicultural individual experiencing acute illness and disease. Simulated practice of nursing skills is in a multimedia setting and utilization of low fidelity mannequins is included. Clinical application of both theory and skills occurs in the hospital. (GR)

“I am looking forward to all my exciting options, both while in school and once I have finished as well.”

Lisa Munn
EOPS Single Parent Award Recipient
Future goals: Earn a Bachelor's of Science in Nursing, followed by a Master's Degree in Nursing.
NUR-305 Nursing Care of the Medical-Surgical Patient III
45.00 hrs lecture, 135.00 hrs lab
Units: 5.00
Prerequisite: NUR-304
Accepted For Credit: CSU

The focus of this course is on nursing care issues related to the advanced management of patients with alterations of cardiovascular, respiratory, endoprotection, elimination, and neuro/sensation systems of adult and geriatric patients. Critical thinking will be promoted by assisting the students to interrelate pathophysiology, nursing assessment, implications of diagnostic tests, pharmacology, and medical treatments. Students will assess, identify nursing diagnoses, and implement nursing interventions to promote adaptive responses in adult and geriatric patients experiencing complex physiologic and psychosocial alterations of the cardiovascular, respiratory, renal, endoprotection, and neurological systems. This course focuses on assessing, developing, implementing, and evaluating a plan of care that respects the individual’s cultural beliefs related to health care practices. The definition of cultural diversity includes ethnic, cultural, and psychological effects in response to wellness, illness, health practices, and value systems among cultural groups. Clinical application of both theory and skills occurs in the acute care hospitals. (GR)

NUR-306 Nursing Care of the Mental Health Client and Advanced Gerontologic Care
36.00 hrs lecture, 162.00 hrs lab
Units: 5.00
Prerequisite: NUR-305
Accepted For Credit: CSU

The course focus is on comprehensive nursing care to promote adaptive communication and responses in mental health and geriatric clients. The nursing roles of provider and manager of care, communicator, teacher, and member of the profession are explored in meeting the needs of patients in community-based psychiatric and geriatric settings. Nursing skills will focus on assessments, communication, and critical thinking through the use of actual clinical situations and/or simulations and role playing. The clinical setting provides a variety of interactional and practice situations with psychiatric and geriatric clients. Students will function in a leadership role during the geriatric clinical and will expand their knowledge of community-based nursing. This course will focus on assessing, developing, implementing, and evaluating a plan of care that respects the individual’s cultural beliefs related to verbal and nonverbal behaviors, the mentally ill, and sources of stress among diverse ethnic groups that may lead to violence, substance abuse, and mental illness. Simulated practice of nursing skills in a multimedia setting is included. Clinical application of both theory and skills occurs in the hospital and community settings. (GR)

NUR-307 Nursing Leadership and Preceptorship
18.00 hrs lecture, 216.00 hrs lab
Units: 5.00
Prerequisite: NUR-306
Accepted For Credit: CSU

The focus of this course is on nursing care and first level management skills in caring for groups of hospitalized patients. Emphasis is placed on team management skills in both acute care and gerontological settings. The registered nurse preceptor directly supervises the student under the guidance of the nursing faculty liaison. Professional development skills, as well as current issues in nursing, are discussed. This course focuses on managing groups of adults and geriatric patients with respect to the individual’s cultural beliefs related to health care practices. The definition of cultural diversity includes ethnic, cultural, and psychological effects in response to wellness, illness, health practices, and value systems among cultural groups. Clinical application of both theory and skills occurs in hospital and gerontological health care facilities. (GR)

NUR-315 Clinical Skills Review
27.00 hrs lab
Units: 0.50

This nursing course provides supplemental instruction and enhancement of clinical skills obtained in previous nursing courses. Not applicable to associate degree. Repeatable = 2 times (CR)

NUR-316 Maternal-Newborn and Women’s Health Review
18.00 hrs lecture
Units: 1.00
Prerequisite: NUR-307 completed or in progress, or current RN license

Nursing 316 is a review of obstetrical and newborn care, with an additional focus on women’s health. The course is meant as a content review for the new nursing graduate who is preparing for NCLEX examinations, or the registered nurse who desires to reenter the profession. Not applicable to associate degree. (CR)

PERSONAL DEVELOPMENT
Division: Counseling

PD-100 Transition to College
18.00 hrs lecture
Units: 1.00
Accepted For Credit: CSU

This course is designed for new students as an orientation to Ohlone and to college life in general. Students will become familiar with various aspects of Ohlone such as facilities, programs, services, policies, technology, and campus-wide issues. Additional topics that will be covered are study skills, academic expectations, diversity, health/wellness, and relationships. (GC)

PD-101 College Survival Techniques
9.00 hrs lecture
Units: 0.50
Accepted For Credit: CSU

This course covers specific topics designed to help students succeed in college and to understand college life. The emphasis will be on effective learning strategies, problem solving, academic planning, and individual motivation. The theme and content of each class varies and is determined by the counseling faculty. Repeatable = 2 times (CR)


PD-103  Transfer Success  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-151B and ENGL-163  
Accepted For Credit: CSU  

This course is designed for first-year students interested in transferring to a college or university, understanding the complex process and achieving student success. Students will learn about self-assessment; goal setting and motivation; critical thinking; degree options; university systems and requirements; transfer programs; education planning; the application process; planning financially; time management, as well as how to ensure a smooth transition. (GR)  

PD-105  College Success  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  

The goal of this course is to assist students in developing personal and academic skills needed to be successful in college and life. This course integrates personal growth, learning techniques, academic and career success, problem solving, and critical and creative thinking. The course focus is on the following topics: self evaluation and assessment, goal setting, career decision making, educational planning, time and financial management techniques, instructor-student relationships, effective writing and communication, cultural diversity, health maintenance, stress management, campus resources, learning styles and strategies including lecture note-taking, test-taking, memory, and concentration. (GC)  

PD-106  Strategies for Success in Math  
18.00 hrs lecture, 18.00 hrs lab  
Units: 1.00  
Corequisite: MATH-151A  

This course covers specific topics designed to help students succeed in college. Additionally, students are assisted in adjusting to college life and identifying learning strategies, problem solving, academic planning, critical thinking and individual motivation. The theme and content of this course is designed to assist students in Math. Repeatable = 2 times (GC)  

PD-111  Strategies for College Success  
18.00 hrs lecture  
Units: 1.00  
Accepted For Credit: CSU & UC  

This course covers specific topics designed to help students succeed in college. Additionally, students are assisted in adjusting to college life and identifying learning strategies, problem solving, academic planning, critical thinking and individual motivation. The theme and content of each class varies and is determined by the counseling faculty. Repeatable = 2 times (GC)  

PD-13  Strategies for Succeeding in College  
36.00 hrs lecture  
Units: 2.00  
Accepted For Credit: CSU & UC  

This course helps students to adjust to college. The focus is on the following topics: college expectations and opportunities, campus resources, learning styles and strategies including lecture note-taking, test taking, memory and concentration, life management, goal setting, educational planning, health maintenance, cultural diversity and relationships. This course integrates personal growth and academic success with problem solving, critical and creative thinking. The theme and content of each class varies and is determined by the counseling faculty. Repeatable = 2 times (GC)  

PD-120  Student Government Workshop  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  

This course explores theories and practice of leadership (roles of leaders, group process, management by objectives, motivational psychology, administration of programs) through lecture, laboratory, student government meetings, and programs. It is recommended for student government officers, club officers, and individuals who want to participate in leadership roles. Repeatable = 3 times (GC)  

PD-149  Career Testing Workshop  
9.00 hrs lecture  
Units: 0.50  
Advisory: Eligible for ENGL-151B and ENGL-163  

This is a practical course that will allow students to focus on self-exploration through the use of career assessment inventories. The course will assist students in establishing career and educational goals. The course is intended as an introduction to the career planning process and is offered in short course format. Repeatable = 2 times (GC)  

PD-150  Career Planning  
36.00 hrs lecture  
Units: 2.00  
Advisory: Eligible for ENGL-151B and ENGL-163  
Accepted For Credit: CSU  

This course will allow students to evaluate personal interests, skills, values, work styles, and experience and to relate them to the world of work. Students will also learn decision making, educational and career planning, locating career resources, job search strategies, and labor market awareness. Repeatable = 2 times (GC)  

PD-170  Welcome Day: The Freshman Connection  
9.00 hrs lecture  
Units: 0.50  
Accepted For Credit: CSU  

Various workshops will be taught by counselors, faculty, and administrators to help students make the transition to college. They will learn how to be successful in college, what college services are available to them, and where things are located on campus. The course includes a guaranteed follow-up counseling appointment. (CR)  

PD-180  Peer Mentoring  
36.00 hrs lecture  
Units: 2.00  
Accepted For Credit: CSU  

This course is an introduction to peer mentoring. Students learn about interpersonal communication, principles of counseling and advising, and theories of student development. Students have the opportunity to act as peer mentors for new Ohlone students. (GC)  

PD-240  College Success for Pre-Health Science Majors  
36.00 hrs lecture  
Units: 2.00  
Accepted For Credit: CSU  

This course is an introduction to Ohlone College health science programs, academic policies and resources. This course also provides students with information on learning strategies and self-motivation/management. (GC)
PHIL-100 **Introduction to Philosophy**  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
An introduction to philosophy, examining various philosophers, and enduring questions such as “What is Reality?” “Who am I?” and “What can I know?” (GC)

PHIL-101 **Ancient Philosophy**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an introduction to the development of Western philosophy through a study of its beginnings in ancient Greece. Thinkers considered include the Presocratics, Socrates, Plato, Aristotle, and post-Socratic such as the Stoics and Epicureans. (GC)

PHIL-102 **Modern Philosophy**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an introduction to the history of modern philosophy. Thinkers studied include Descartes, Hobbes, Locke, Berkeley, Hume, Kant, and contemporary philosophers. (GC)

PHIL-104 **Logic**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This is an introductory course in formal deductive reasoning. Emphasis will be on modern symbolic logic. Topics discussed include truth-functional connectives, truth tables, natural deduction, and proof. (GC)

PHIL-106 **Ethics**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course examines the major ethical systems and contemporary moral issues. Ethical theories include Kantianism, Utilitarianism, Virtue Theory, and Ethics and Care. Moral issues will include euthanasia, abortion, the death penalty, animal rights, and obligations to charity. (GC)

PHIL-107 **Practical Reasoning**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This is a practical examination of reasoning and argumentation illustrated by topics drawn from everyday life. Topics examined include the structure and form of arguments, informal fallacies, and ways in which cultural, social, and psychological factors support or detract from the reasoning process. (GC)

PHIL-109A **Understanding the Old Testament**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a general introduction to the Hebrew Scriptures. Emphasis will be upon the history, literature, and religion of ancient Israel, using the findings of modern Biblical scholarship. (GC)

PHIL-109B **Understanding the New Testament**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a general introduction to the New Testament. Emphasis will be upon the use of modern scholarship to investigate the historical, literary, and religious background of the New Testament. (GC)

PHIL-110 **Introduction to Asian Religions**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a comparative survey of major religious traditions of the Western World: Judaism, Christianity, Islam, and others. Cultural backgrounds and historical development will be emphasized. (GC)

PHIL-112 **Introduction to Western Religions**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is a comparative survey of major religious traditions of the Western World: Judaism, Christianity, Islam, and others. Cultural backgrounds and historical development will be emphasized. (GC)

PHIL-114 **Introduction to Islam**  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU & UC  
This course will offer a basic overview of the nature of Islam as a religion or system of life, its culture, and its impact on Muslim individuals and groups. The course will consider the basic sources of Islam and the history of the Islamic tradition. (GC)

PHIL-116 **Bioethics**  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU  
This course examines issues concerning biotechnology, medicine, and the ethical questions that are raised by the technology. Concepts studied include human and animal research, genetically modified organisms, genetic engineering, eugenics, stem cell research, and artificial biology. Ethical theory will also be examined as a groundwork for discussion of the issues covered. (GC)
PHIL-118  Latin American Philosophy
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course will survey post-colonial thought in Latin America, including how European ideas have influenced Latin American philosophy, concepts of race, identity, community ethics; and the impact of Latin American philosophy on contemporary society. (GC)

Physiological Education

PHYSICAL EDUCATION
Division: Exercise Science and Athletics

PE-195A1  PE Work Experience Education
75.00 hrs lab
Units: 1.00
Accepted For Credit: CSU
Through a set of learning objectives established by the student, supervisor and instructor, each student will work with and learn from professionals in the field of Physical Education (Exercise Science and Wellness). These experiences will enable students to improve job skills, and analyze career opportunities and requirements. Repeatable = 3 times up to 16 units (GC)

PE-195A2  PE Work Experience Education
150.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
Through a set of learning objectives established by the student, supervisor and instructor, each student will work with and learn from professionals in the field of Physical Education (Exercise Science and Wellness). These experiences will enable students to improve job skills, and analyze career opportunities and requirements. Repeatable = 3 times or up to 16 units (GC)

PE-195A3  PE Work Experience Education
225.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Through a set of learning objectives established by the student, supervisor and instructor, each student will work with and learn from professionals in the field of Physical Education (Exercise Science and Wellness). These experiences will enable students to improve job skills, and analyze career opportunities and requirements. Repeatable = 3 times or up to 16 units (GC)

PE-195A4  PE Work Experience Education
300.00 hrs lab
Units: 4.00
Accepted For Credit: CSU
Through a set of learning objectives established by the student, supervisor, and instructor, each student will work with and learn from professionals in the field of Physical Education (Exercise Science and Wellness). These experiences will enable students to improve job skills and analyze career opportunities and requirements. Repeatable = 3 times or 16 units (GC)

PE-250  Fitness Camp
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: Medical check within the last year recommended
Accepted For Credit: CSU & UC
This lifetime fitness and wellness course for men and women will emphasize total body fitness through aerobic activity, strength training, and stretching. Fitness and wellness-related lecture and lab activities will address cardiorespiratory endurance, muscular strength and endurance, safe and effective activity principles, basic nutrition principles, weight management strategies, and risk factors for disease. Repeatable = 3 times (GC)

PE-300A2  Basketball
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course provides the student with an understanding of the fundamentals, rules, strategies, and skills of basketball. Game situations will also be covered. (GC)

PE-300C2  Advanced Basketball
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year; PE-300A2 or PE-300A3
Accepted For Credit: CSU & UC
This course is designed to further develop the techniques of the basketball player who has been taught the fundamentals, rules, and strategies of basketball. This course is recommended for those who have played basketball competitively. (GC)

PE-300C3  Advanced Basketball
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year; PE-300A2 or PE-300A3
Accepted For Credit: CSU & UC
This course is designed to further develop the techniques of the basketball player who has been taught the fundamentals, rules, and strategies of basketball. This course is recommended for those who have played basketball competitively. (GC)

PE-301A2  Volleyball
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This PE course is designed for students wishing to learn the fundamentals of volleyball. (GC)

PE-301A3  Volleyball
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This PE course is designed for students wishing to learn the fundamentals of volleyball. (GC)

PE-301B2  Intermediate Volleyball
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year; PE-301A2 or PE-301A3
Accepted For Credit: CSU & UC
This PE course is designed for students wishing to learn the intermediate strategies and skills of volleyball. (GC)
PE-301B3  Intermediate Volleyball
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year; PE-301A2 or PE-301A3
Accepted For Credit: CSU & UC
This PE course is designed for students wishing to learn the intermediate strategies and skills of volleyball. (GC)

PE-301C2  Advanced Volleyball
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year; PE-301B2 or PE-301B3
Accepted For Credit: CSU & UC
This PE course is designed for students wishing to learn the advanced strategies and skills of volleyball. This course is recommended for the competitive volleyball player. (GC)

PE-301C3  Advanced Volleyball
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year; PE-301B2 or PE-301B3
Accepted For Credit: CSU & UC
This PE course is designed for students wishing to learn the advanced strategies and skills of volleyball. This course is recommended for the competitive volleyball player. (GC)

PE-303A2  Soccer
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course will instruct the student in the basic techniques of soccer. Basic skills, rules, and basic strategies will be covered. (GC)

PE-303A3  Soccer
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course will instruct the student in the basic techniques of soccer. Basic skills, rules, and basic strategies will be covered. (GC)

PE-304A2  Indoor Soccer
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course will instruct the student in the basic fundamentals and strategies used in indoor soccer. (GC)

PE-305C2  Advanced Softball
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed to further the skills and understanding of each participant so that each might better perform the skills necessary to play the game of softball at a highly competitive level. A certain amount of physical fitness will also be obtained through the practice and participation in class. (GC)

PE-307C2  Advanced Baseball
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year; previous high school or college experience.
Accepted For Credit: CSU & UC
This course is designed to improve skills and understanding of baseball fundamentals enabling the student to compete at the college level. Strategy and technique will be taught in non-competitive and competitive situations. Situational hitting and defense practice in game settings will also be stressed. (GC)

PE-307C3  Advanced Baseball
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year; previous high school or college experience
Accepted For Credit: CSU & UC
This course is designed to improve skills and understanding of baseball fundamentals enabling the student to compete at the college level. Strategy and technique will be taught in non-competitive and competitive situations. Situational hitting and defense practice in game settings will also be stressed. (GC)

PE-315A2  Beginning Bowling
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course provides the student an understanding of the fundamentals of beginning bowling. (GC)

PE-315B2  Intermediate Bowling
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year; PE-315A2
Accepted For Credit: CSU & UC
This course is designed for students who wish to learn advanced bowling techniques. (GC)

PE-320A2  Basic Golf Skills
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed to give the student an understanding of the fundamentals of the game of golf including grip, stance, swing, rules, etiquette, and knowledge of equipment. (GC)

PE-320A3  Basic Golf Skills
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed to give the student an understanding of the fundamentals of the game of golf including grip, stance, swing, rules, etiquette, and knowledge of equipment. (GC)

PE-321  Small Group Golf Instruction
36.00 hrs lecture, 108.00 hrs lab
Units: 4.00
Accepted For Credit: CSU & UC
This course covers the fundamentals of golf technique including proper use of equipment, grip, stance, and swing. The course is broken into smaller groups for more effective learning and coaching. Repeatable = 2 times (GC)

Did you know???
70% of the nurses in California received their education from community colleges.
Source: Community College League of California
PE-322A2  **Golf: Chipping, Pitching, and Putting**
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year; PE-320A2 or PE-320A3
Accepted For Credit: CSU & UC
This is an advanced golf class designed specifically to introduce the student to the skills required in the performance of chipping, pitching, and putting in order to lower their golf score. (GC)

PE-322A3  **Golf: Chipping, Pitching, and Putting**
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year; PE-320A2 or PE-320A3
Accepted For Credit: CSU & UC
This is an advanced golf class designed specifically to introduce the student to the skills required in the performance of chipping, pitching, and putting in order to lower their golf score. (GC)

PE-323  **Golf One on One**
36.00 hrs lecture, 108.00 hrs lab
Units: 4.00
Advisory: Some existing golf experience
Accepted For Credit: CSU & UC
This course is designed to assist the golfer with swing improvement using the V1 PGA certified video system. The V1 system will allow the instructor to show the students various angles of their swing to identify their swing faults. Once faults are identified, the instructor will assign specific drills learned in the Small Group Instruction course to correct the faults. Repeatable = 2 times (GC)

PE-324A2  **On-Course Golf Management**
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year; PE-320C2 or PE-320C3
Accepted For Credit: CSU & UC
This course is designed to help the student develop the proper shotmaking skills, help reduce stress and use positive feedback techniques while playing Leisure or Tournament Golf. The student will also play various golf formats and establish a golf handicap. (GC)

PE-324A3  **On-Course Golf Management**
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year; PE-320C2 or PE-320C3
Accepted For Credit: CSU & UC
This course is designed to help the student develop the proper shotmaking skills, help reduce stress and use positive feedback techniques while playing Leisure or Tournament Golf. The student will also play various golf formats and establish a golf handicap. (GC)

PE-325A2  **Tournament Golf**
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed to prepare the individual mentally and physically for the rigors of tournament golf play. The student will play various tournament formats of scramble, best ball, and alternating shot. (GC)

PE-325A3  **Tournament Golf**
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is designed to prepare the individual mentally and physically for the rigors of tournament golf play. The student will play various tournament formats of scramble, best ball, and alternating shot. (GC)

PE-326A2  **Swing Analysis**
36.00 hrs lab
Units: 0.50
Corequisite: PE-320 or PE-322
Accepted For Credit: CSU
This course is designed to assist the golfer with swing improvement using video. (GC)

PE-326A3  **Swing Analysis**
54.00 hrs lab
Units: 1.00
Corequisite: PE-320A2 or PE-322
Accepted For Credit: CSU & UC
This course is designed to assist the golfer with swing improvement using video. Repeatable = 2 times (GC)

PE-327B2  **Travel Destinations**
36.00 hrs lab
Units: 0.50
Advisory: Prior golf experience recommended
Accepted For Credit: CSU & UC
This course is focused on the individual golf enthusiast who wants to travel to a variety of destinations to play golf. Repeatable = 2 times (CR)

PE-327B3  **Travel Destinations**
54.00 hrs lab
Units: 1.00
Advisory: Prior golf experience recommended
Accepted For Credit: CSU & UC
This course is focused on the individual golf enthusiast who wants to travel to a variety of destinations to play golf. Repeatable = 2 times (CR)

PE-328  **Golf Course Experience**
36.00 hrs lecture, 108.00 hrs lab
Units: 4.00
Advisory: Prior golf experience recommended
Accepted For Credit: CSU & UC
This course is designed to help the student develop the proper shotmaking skills, help reduce stress and use positive feedback techniques while playing leisure and tournament golf. The student will also play various golf formats and establish a golf handicap. Repeatable = 2 times

PE-336A3  **Express Cardio**
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU
This class will use both circuit and group training formats in a 30-minute cardio blast. Designed for people with limited time, the course will require students to use a variety of cardio machines, jump ropes, BOSU, and calisthenics to elevate the heart rate and improve fitness. Repeatable = 3 times (GC)

PE-342A2  **Circuit Training**
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This activity course is designed to increase flexibility, strength, and cardiovascular endurance through the practical application of circuit training. (GC)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Lab Hours</th>
<th>Advisory</th>
<th>Accepted For Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE-342A3</td>
<td>Circuit Training</td>
<td>1.00</td>
<td>54.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This activity course is designed to increase flexibility, strength, and cardiovascular endurance through the practical application of circuit training. (GC)</td>
</tr>
<tr>
<td>PE-343A2</td>
<td>Strength and Cardio Training</td>
<td>0.50</td>
<td>36.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course provides students with an opportunity to create and practice an individualized fitness and wellness program through the use of cardiovascular equipment, circuit training, resistance machines, and free weights. (GC)</td>
</tr>
<tr>
<td>PE-344A2</td>
<td>Total Fitness</td>
<td>0.50</td>
<td>36.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course provides students with a structured total body workout designed to improve fitness and health through the use of cardiovascular equipment, circuit training, resistance machines, and free weights. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>PE-344A3</td>
<td>Total Fitness</td>
<td>1.00</td>
<td>54.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course provides students with a structured total body workout designed to improve fitness and health through the use of cardiovascular equipment, circuit training, resistance machines, and free weights. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>PE-345A2</td>
<td>Sport Specific Training</td>
<td>0.50</td>
<td>36.00</td>
<td>Medical check within the last year</td>
<td>CSU</td>
<td>This course is designed to improve neuromuscular coordination and agility related to sport-specific movements. Course is designed for intercollegiate-level athletes. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>PE-345A3</td>
<td>Sport Specific Training</td>
<td>1.00</td>
<td>54.00</td>
<td>Medical check within the last year</td>
<td>CSU</td>
<td>This course is designed to improve neuromuscular coordination and agility related to sport-specific movements. Course is designed for intercollegiate-level athletes. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>PE-346A2</td>
<td>Guts and Butts</td>
<td>0.50</td>
<td>36.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>Guts and Butts is a conditioning program emphasizing muscular strength, toning, and endurance for the abdominal, gluteal, and thigh muscle groups. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>PE-346A3</td>
<td>Guts and Butts</td>
<td>1.00</td>
<td>54.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>Guts and Butts is a conditioning program emphasizing muscular strength, toning, and endurance for the abdominal, gluteal, and thigh muscle groups. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>PE-350A2</td>
<td>Learning to Swim</td>
<td>0.50</td>
<td>36.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed for students who want to learn how to swim and become less fearful of the water. This course is also recommended for students wanting to become better swimmers. (GC)</td>
</tr>
<tr>
<td>PE-350A3</td>
<td>Learning to Swim</td>
<td>1.00</td>
<td>54.00</td>
<td>Medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course is designed for students who want to learn how to swim and become less fearful of the water. This course is also recommended for students wanting to become better swimmers. (GC)</td>
</tr>
<tr>
<td>PE-350D2</td>
<td>Competitive Swimming</td>
<td>0.50</td>
<td>36.00</td>
<td>Ability to swim 1200 yards in under 20 minutes; medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course consists of a swimming workout consisting of progressively more difficult interval swimming. All four competitive strokes will be used throughout the semester. (GC)</td>
</tr>
<tr>
<td>PE-353B2</td>
<td>Intermediate Water Polo</td>
<td>0.50</td>
<td>36.00</td>
<td>Medical check within last year; PE-353A2 or PE-353A3</td>
<td>CSU &amp; UC</td>
<td>This course is designed to teach students intermediate water polo skills and strategies. This course is highly recommended for student who wishes to play water polo. (GC)</td>
</tr>
<tr>
<td>PE-350D3</td>
<td>Competitive Swimming</td>
<td>1.00</td>
<td>54.00</td>
<td>Ability to swim 1200 yards in under 20 minutes; medical check within the last year</td>
<td>CSU &amp; UC</td>
<td>This course consists of a swimming workout consisting of progressively more difficult interval swimming. All four competitive strokes will be used throughout the semester. (GC)</td>
</tr>
</tbody>
</table>
**PE-351A**  
**Aquatic Conditioning**  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is designed for students who want to improve their swimming and conditioning skills. This course enables the students to become physically fit while minimizing the risk of injury to joints of the body. (GC)

**PE-351A3**  
**Aquatic Conditioning**  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is designed for students who want to improve their swimming and conditioning skills. This course enables the students to become physically fit while minimizing the risk of injury to joints of the body. (GC)

**PE-353B2**  
**Intermediate Water Polo**  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within last year; PE-353A2 or PE-353A3  
Accepted For Credit: CSU  
This course is designed to teach students intermediate water polo skills and strategies. This course is highly recommended for students who wish to play water polo. (GC)

**PE-357A3**  
**Aqua Aerobics**  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course will introduce aerobic activities in the swimming pool. Activities to include rhythmic movements to music, major muscle group exercises, and fluid resistance training. Repeatable = 3 times (GC)

**PE-360A2**  
**Badminton**  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is designed to teach the student the basic fundamentals of badminton including rules and game strategy. (GC)

**PE-360A3**  
**Badminton**  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is designed to teach the student the basic fundamentals of badminton including rules and game strategy. (GC)

**PE-360B2**  
**Intermediate Badminton**  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year; PE-360A2 or PE-360A3  
Accepted For Credit: CSU & UC  
This course is designed to further develop the techniques and skill level of the badminton player. (GC)

**PE-360B3**  
**Intermediate Badminton**  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is designed to further develop the techniques and skill level of the badminton player. (GC)

**PE-361B3**  
**Intermediate Racquetball**  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year; PE-361A2 or PE-361A3  
Accepted For Credit: CSU & UC  
This course is designed to further instruct the student on the intermediate skills and strategies needed at the intermediate level of racquetball. (GC)

**PE-362A2**  
**Beginning Tennis**  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This course is designed to teach the basic fundamentals, rules, and strategies pertaining to the game of tennis. (GC)

**PE-362A3**  
**Beginning Tennis**  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
This PE course is designed to teach the basic fundamentals, rules, and strategies pertaining to the game of tennis. (GC)

**PE-362B2**  
**Intermediate Tennis**  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year; PE-362A2 or PE-362A3  
Accepted For Credit: CSU & UC  
This PE course is designed for students to learn the fundamental and intermediate skills of tennis. Strategy sessions in singles as well as doubles play will also be covered. (GC)

**PE-362B3**  
**Intermediate Tennis**  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year; PE-362A2 or PE-362A3  
Accepted For Credit: CSU & UC  
This PE course is designed for students to learn the fundamental and intermediate skills of tennis. Strategy sessions in singles as well as doubles play will also be covered. (GC)
PE-366 A 3      Dance Aerobics
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This PE course is designed for students to learn a series of
dances which will strengthen the cardiovascular system;
strengthen, tone, and trim the skeletal muscle system; and
increase flexibility. (GC)

PE-367 A 2      Step Aerobics
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Step Aerobics is an introduction to choreography utilizing the
step as a means for improving cardiorespiratory endurance.
Toning exercises for the abdominals and upper body will
complete the workout. (GC)

PE-367 A 3      Step Aerobics
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
Step Aerobics is an introduction to choreography utilizing the
step as a means for improving cardiorespiratory endurance.
Toning exercises for the abdominal and upper body will
complete the workout. (GC)

PE-372 A 2      Conditioning
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course is an aerobic type body conditioning class which
includes stretching, step workout, abdominal development,
and muscle toning exercises. (GC)

PE-372 A 3      Conditioning
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU
This course is an aerobic body conditioning class which
includes a cardiovascular workout, abdominal strengthening,
muscle toning, and stretching exercises. (GC)

PE-372 B 2      Boot Camp
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course combines cardiorespiratory, strength, flexibility and
core training into a back-to-basics approach to fitness. Body
weight exercises, like sit ups, push ups, leg and abdominal
strengthening, will be combined with cardiorespiratory
exercises, like running and jumping rope, in intervals that will
challenge you to your max. This is a no-nonsense approach to
total body training that helps you reach your potential.
Repeatable = 3 times (GC)

PE-372 B 3      Boot Camp
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course combines cardiorespiratory, strength, flexibility and
core training into a back-to-basics approach to fitness. Body
weight exercises, like sit ups, push ups, leg and abdominal
strengthening, will be combined with cardiorespiratory
exercises, like running and jumping rope, in intervals that will
challenge you to your max. This is a no-nonsense approach to
total body training that helps you reach your potential.
Repeatable = 3 times (GC)

PE-374 A 2      Kickboxing
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course utilizes martial arts techniques including kicks,
punches, blocks, and defenses in a cardio exercise program
designed to aid in the prevention of verbal and physical
attacks. (GC)

PE-374 A 3      Kickboxing
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course utilizes martial arts techniques including kicks,
punches, blocks, and defenses in a cardio exercise program
designed to aid in the prevention of verbal and physical
attacks. (GC)

PE-375 A 2      Tai Chi
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This physical activity course is designed to focus on Tai Chi as
a lifetime leisure activity. Tai Chi practice is suitable for all ages
and levels of fitness. Benefits include stress reduction,
improved balance and injury prevention through improvement
in joint stability and increased range of motion. Repeatable =
3 times (GC)

PE-375 A 3      Tai Chi
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This physical activity course is designed to focus on Tai Chi as
a lifetime leisure activity. Tai Chi practice is suitable for all ages
and levels of fitness. Benefits include stress reduction,
improved balance and injury prevention through improvement
in joint stability and increased range of motion. Repeatable =
3 times (GC)

PE-376 A 2      Yoga
36.00 hrs lab
Units: 0.50
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This course will explore the philosophies and positions related
to yoga fundamentals. In addition, concepts of meditation will
be introduced. Repeatable = 3 times (GC)

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Did you know???

In 2011 the Men’s Baseball team returned to the State
Championships for the second consecutive year.
This course will allow the student to increase their strength, flexibility, stamina, and concentration through the use of floor exercises inspired by Joseph Pilates. This technique driven class will introduce positions such as the 100’s, Roll Downs, Table Tops, and Rockers. Repeatable = 3 times (GC)

This course combines yoga and fitness principles in a unique blend that develops muscle endurance, strength, balance, flexibility and core stability through a series of exercises and traditional yoga poses. Repeatable = 3 times (GC)

This course introduces the student to the basic principles and practices of yoga, including yogic breathing, positioning, and a holistic approach to a healthy mind and body. Various meditation techniques will be introduced and practiced with a focus on relaxation and stress reduction. Repeatable = 3 times (GC)

This course will allow the student to increase their strength, flexibility, stamina, and concentration through the use of floor exercises inspired by Joseph Pilates. This technique driven class will introduce positions such as the 100’s, Roll Downs, Table Tops, and Rockers. Repeatable = 3 times (GC)

This physical activity course is designed to focus on total body conditioning to help the student reach his/her body's desired potential. Improve muscle strength and endurance, flexibility, core stability, and balance through the correct application of sound training principles. Instruction on components of fitness and wellness including nutrition, weight management, stress management, healthy lifestyles, body composition, and rest will be presented. Repeatable = 3 times (GC)
PE-379A Body Sculpting
54.00 hrs lab
Units: 1.00
Advisory: Medical check within the last year
Accepted For Credit: CSU & UC
This physical activity course is designed to focus on total body conditioning to help the student reach his/her body's desired potential. Improve muscle strength and endurance, flexibility, core stability, and balance through the correct application of sound training principles. Instruction on components of fitness and wellness including nutrition, weight management, stress management, healthy lifestyles, body composition, and rest will be presented. Repeatable = 3 times (GC)

PE-393A2 Adaptive Physical Education – Strength Training
36.00 hrs lab
Units: 0.50
Prerequisite: Statement from student's physician stating medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the student's individualized needs through physical activity. Instruction will primarily focus on the components of muscular strength and the necessity it brings for daily living. (GC)

PE-393A3 Adaptive Physical Education – Strength Training
54.00 hrs lab
Units: 1.00
Prerequisite: Statement from student's physician stating medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the student's individualized needs through physical activity. Instruction will primarily focus on the components of muscular strength and the necessity it brings for daily living. (GC)

PE-394A2 Adaptive Physical Education – Aquatics
36.00 hrs lab
Units: 0.50
Prerequisite: Statement from student's physician stating medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the needs of the physically limited student in a physical education activity class. Individualized instruction for water safe disabled students. (GC)

PE-394A3 Adaptive Physical Education – Aquatics
54.00 hrs lab
Units: 1.00
Prerequisite: Statement from student's physician stating medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the needs of the physically limited student in a physical education activity class. Individualized instruction for water safe disabled students. (GC)

PE-396A2 Adaptive Physical Education – Striding
36.00 hrs lab
Units: 0.50
Prerequisite: Statement from student's physician stating medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the needs of the physically limited student in a physical education activity class. Individualized cardiovascular conditioning and gradual endurance exercises are utilized. (GC)

PE-397A2 Adaptive Physical Education – Exercise
36.00 hrs lab
Units: 0.50
Prerequisite: Statement from student's physician stating medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the needs of the physically limited student in a physical education activity class. Individualized fitness and general exercises are utilized. (GC)

PE-397A3 Adaptive Physical Education – Exercise
54.00 hrs lab
Units: 1.00
Prerequisite: Statement from student's physician stating medical limitations
Accepted For Credit: CSU & UC
This course is designed to meet the needs of the physically limited student in a physical education activity class. Individualized fitness and general exercises are utilized. (GC)

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**PHYSICAL THERAPIST ASSISTANT**

Division: Health Sciences and Environmental Studies

PTA-101 Introduction to Physical Therapy
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: BIOL-103A and BIOL-103B
Accepted For Credit: CSU
This course introduces students to the field of physical therapy by covering the history and ethics of the profession as they relate to the health care system. The course will cover the development of the team approach in health care delivery, philosophies of rehabilitation, patient relationships, and the psychosocial impact of illness and injury. Also emphasized is the scope of practice of the physical therapist assistant. Course content includes observational experiences in patient care settings. (GR)

PTA-102 Pathology
54.00 hrs lecture
Units: 3.00
Prerequisite: Admission to the PTA Program: all graded PTA courses must be passed with a grade of C or better
Accepted For Credit: CSU
This course introduces common pathological conditions with emphasis on the following systems: musculoskeletal, circulatory, respiratory, gastrointestinal, and genitourinary. The role of physical therapy in the treatment of these conditions is covered, as well as interventions commonly performed by the physical therapist assistant. (GR)

PTA-103 Kinesiology I
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: Admission to the PTA program: all graded PTA courses must be completed with a grade of C or better
Accepted For Credit: CSU
This course deals with the biomechanical principles of the trunk and lower extremities. It includes the kinesiological functions of muscles and muscle groups. Clinical manifestations of muscle dysfunction are covered, as well as techniques for joint measurement. Assessment by manual muscle testing and gait analysis is also covered. (GR)
PTA-104  **Kinesiology II**  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Prerequisite: Admission to the PTA program; PTA-103; all graded PTA courses must be passed with grade of C or better  
Accepted For Credit: CSU  
This course is a continuation of Kinesiology I and deals with the biomechanical principles of the cervical, upper extremities, and thoracic area of the body. It includes the kinesiological functions of muscles and muscle groups. Clinical manifestations of muscle dysfunction are covered, as well as techniques for joint measurement. Assessment by manual testing and activities of daily living are presented. (GR)  

PTA-105A  **Therapeutic Exercise I**  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Prerequisite: Admission into PTA program, PTA-102, PTA-103; all graded PTA courses must be completed with a grade of C or better  
Accepted For Credit: CSU  
This course is a continuation of PTA-105A. The emphasis is on rehabilitation exercise programs, testing, and documentation. This course teaches the use of exercise as a preventative and rehabilitative modality for the treatment of pathological conditions. Emphasis is placed on the design and application of exercise programs to improve, maintain, and offset the effects of various pathological conditions on the body. (GR)  

PTA-105B  **Therapeutic Exercise II**  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Prerequisite: Admission into the PTA program, PTA-105A; all graded PTA courses must be passed with a grade of C or better  
Accepted For Credit: CSU  
This course is a continuation of PTA-105A. The emphasis is on rehabilitation exercise programs, testing, and documentation. Programs on balance training, work hardening, water as rehabilitation medium, and specific orthopedic and amputee rehabilitation programs are demonstrated and discussed. (GR)  

PTA-106  **Orthopedics**  
36.00 hrs lecture  
Units: 2.00  
Prerequisite: Admission into the PTA program; all graded PTA courses must be passed with a grade of C or better  
Accepted For Credit: CSU  
This course presents the effects of disease and trauma on the musculoskeletal system and orthopedic problems encountered by the physical therapist assistant in the hospital and outpatient setting. Signs and symptoms, surgical intervention, treatment regimens, and implications for rehabilitation are all covered in this class. (GR)  

PTA-107A  **Clinical Practicum I**  
54.00 hrs lab  
Units: 1.00  
Prerequisite: Admission to the PTA Program; PTA-102A, PTA-103, and PTA-105A; all graded PTA courses must be passed with a grade of C or better  
Corequisite: PTA-104, PTA-106  
Accepted For Credit: CSU  
This course gives the student initial exposure to physical therapy treatment procedures in the clinical setting with patients experiencing disability of the peripheral and central nervous systems. Students will practice application of physical therapy procedures according to the protocols of the clinical facility. Students will learn the process of communication with patients and therapists. The clinical experience includes initial patient contact, patient set-up, and the administration of modalities under the auspices of the physical therapist clinical instructor. The practicum setting involves training in one or more physical therapy settings as designed by the instructor. Repeatable = 1 time (CR)  

PTA-107B  **Clinical Practicum II**  
108.00 hrs lab  
Units: 2.00  
Prerequisite: PTA-107A  
Corequisite: PTA-105B, PTA-108  
Accepted For Credit: CSU  
This course is designed to teach students the necessary skills for physical therapy patient care and to build on the skills and knowledge learned in PTA-107A. These skills include active, passive, and resistive exercise programs as well as continued practice in application of thermal-based modalities, gait, and transfer training. Students will learn fundamental procedures for the principles of clinical education from direct teaching through in-service mechanism. Laboratory experiences may include opportunities to practice in more than one setting as designed by the instructor. Repeatable = 1 time (CR)  

PTA-108  **Advanced Modalities**  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Prerequisite: Admission to PTA Program; PTA-101  
Accepted For Credit: CSU  
This course deals with specific advanced physical therapy procedures which are employed in the physical therapy clinic, including paraffin bath, various types of electrical stimulation (TNS, Micro Current, Interferential, Premodulated, Russian, Galvanic, Iontophoresis, and HFS), various light spectrum modalities (Ultra-violet and Infrared), and electromyography for biofeedback. (GR)  

PTA-109  **Physical Therapy Through the Life Span**  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Prerequisite: Admission to PTA program; PTA-105A, PTA-105B, and PTA-106  
Accepted For Credit: CSU  
This course will introduce students to the role of physical therapy treatment as it applies to the developmental process from gestation through aging. Emphasis is placed on neurodevelopmental techniques used for abnormal development in infants and children, as well as treatment protocols for patients with neurologic or musculoskeletal disorders. The aging process will be covered with concentration on the effects of exercise and activity on improving the quality of life of the individual. Repeatable = 1 time (GR)  

PTA-110  **Neurological Disorders**  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Prerequisite: Admission to the PTA program; PTA-105A, PTA-105B, PTA-107A, and PTA-107B  
Accepted For Credit: CSU  
This course is intended to increase students’ knowledge of the anatomy and physiology of the human nervous system including the central, peripheral, and autonomic nervous systems. Emphasis is placed on the clinical manifestations of disease or injury to the nervous system as it relates to the clinical picture of the physical therapy patient. (GR)
PTA-111 Advanced Procedures
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: Admission to PTA Program, PTA-101
Accepted For Credit: CSU
This course is a continuation of clinical procedures mastered in PTA-108, Advanced Modalities. This course is an introduction to the application of orthotic and prosthetic devices. Included in the course is a discussion and demonstration of the types of devices utilized in the treatment of the disabled individual, as well as procedures commonly used in the maintenance, donning, and removal of these devices. Students will learn how to instruct and prepare the patient to utilize this specialized equipment. Problem solving will be utilized in assisting students to apply standardized practices to meet individual patient needs. (CR)

PTA-112 Clinical Affiliation
261.00 hrs lab
Units: 4.50
Prerequisite: PTA-107A, PTA-107B, and PTA-107C
This course is the culmination of all previous clinical experiences. Under the guidance of the clinical instructor, students will utilize knowledge gained in the previous four semesters to deliver physical therapy care to patients experiencing simple to complex diagnosis. Students will be expected to participate in the clinic setting by rendering modality treatments, work with patients on activities of daily living, initiate proper application of orthotic and prosthetic devices, and test and interpret results from functional and objective testing, as well as perform documentation and assist with discharge planning. Laboratory experiences may include training in more than one setting as designated by the instructor. (CR)

PTA-119 Sports Performance Testing
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Cross-referenced Course: KIN-256
Prerequisite: Acceptance to PTA program
Accepted For Credit: CSU
This course is intended to cover assessment methods commonly used to evaluate athletic ability. It will cover anaerobic testing methods used to establish baseline, normative, and developmental data. Testing for specific sports such as basketball, football, soccer, and tennis is also covered. Repeatable = 1 time (GR)

PTA-140 PTA Licensure Preparation
54.00 hrs lab
Units: 1.00
This course is designed to assist students in preparation to sit for licensure as a physical therapist assistant. Content, scope, and format of both the National PTA Licensure Exam and the California PT Laws and Regulations Exam will be addressed. Additionally, test-taking skills, study skills, content review, and self-assessment exercises will be used to facilitate preparation for these examinations. Not applicable to associate degree. Repeatable = 1 time (CR)

PTA-301 Clinical Practicum I
216.00 hrs lab
Units: 4.00
Prerequisite: PTA-106
Corequisite: PTA-104, PTA-105A, PTA-108
Accepted For Credit: CSU
This course gives the student initial exposure to physical therapy treatment procedures in the clinical setting with patients experiencing disability of the peripheral and central nervous systems. Students will practice application of physical therapy procedures according to the protocols of the clinical facility. Students will learn the process of communication with patients and therapists. The clinical experience includes initial patient contact, patient set-up, and the administration of modalities under the auspices of the physical therapist clinical instructor. The practicum setting involves training in one or more physical therapy settings as designed by the instructor. Repeatable = 1 time (CR)

PTA-302 Clinical Practicum II
216.00 hrs lab
Units: 4.00
Prerequisite: PTA-301
Corequisite: PTA-105B, PTA-109, PTA-110
Accepted For Credit: CSU
This course is designed to teach students the necessary skills for physical therapy patient care and to build on the skills and knowledge learned in PTA-301. These skills include active, passive and resistive exercise programs, continued practice in application of thermal-based modalities, gait and transfer training. Students will collect and interpret clinical data and practice testing for strength, balance, and coordination. Students are expected to adjust patient treatment plans based on the test results and to communicate these to the Clinical Instructor for the purpose of modifying treatment plans. Students are required to complete a clinical in-service. Students will also learn about the clinical environment as it relates to patient referral patterns, time management, staff utilization, and clinical marketing. Laboratory experiences may include opportunities to practice in more than one setting as designed by the instructor. Repeatable = 1 time (CR)

PTA-303 Clinical Internship
243.00 hrs lab
Units: 4.50
Prerequisite: PTA-302
Corequisite: PTA-111, PTA-140
Accepted For Credit: CSU
This course is the culmination of all previous clinical experiences. Under the guidance of the clinical instructor, students will utilize knowledge gained in the previous four semesters to deliver physical therapy care to patients experiencing simple to complex diagnosis. Students will be expected to participate in the clinic setting by rendering modality treatments, work with patients on activities of daily living, initiate proper application of orthotic and prosthetic devices, and test and interpret results from functional and objective testing, as well as perform documentation and assist with discharge planning. Laboratory experiences may include training in more than one setting as designated by the instructor. (CR)

"Without education, I cannot be who I want to be in the future."
Jessica Hau
Ohlone College Foundation Scholarship Recipient
Future goals: Receive a Bachelor of Arts degree in Public Health and find a career that can help address health issues in the world.
PHYSICS
Division: Science, Technology, and Engineering

PHYS-108 Survey of Physics
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B, ENGL-163, and MATH-151
Accepted For Credit: CSU & UC
This is a general education course for non-science majors that gives a non-mathematical survey of physics, exploring the basic principles of mechanics, electromagnetism, quantum mechanics, relativity, and recent developments. Demonstrations are used extensively. (GC)

PHYS-120 Introduction to Physics I
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: MATH-181
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is a study of Newtonian mechanics, energy and transformations, gases, liquids, and solids. Periodic motion and waves will also be studied. (GR)

PHYS-120A Introduction to Physics – Calculus Supplement
18.00 hrs lecture
Units: 1.00
Prerequisite: MATH-101A
Corequisite: PHYS-120
Accepted For Credit: CSU & UC
This is an introduction to basic concepts of Calculus with applications to Physics Mechanics. (GR)

PHYS-121 Introduction to Physics II
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: PHYS-120
Accepted For Credit: CSU & UC
This course is a continuation of PHYS-120 and covers light and optics, electricity, magnetism, and modern physics. (GR)

PHYS-121A Introduction to Physics II – Calculus Supplement
18.00 hrs lecture
Units: 1.00
Prerequisite: MATH-101A and PHYS-120
Accepted For Credit: CSU & UC
This is an introduction to Calculus as applied to problems of electromagnetism. (GR)

PHYS-131D Review of Physics Concepts
18.00 hrs lecture
Units: 1.00
Corequisite: PHYS-120, PHYS-121, PHYS-140, PHYS-141, or PHYS-142
This is an introduction to study techniques and more in-depth discussions of physics principles and problem-solving. This course is designed to review the material covered in selected Physics course(s) taken concurrently. Repeatable = 3 times (CR)

PHYS-140 Mechanics
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: MATH-101A
Advisory: MATH-101B
Accepted For Credit: CSU & UC
A mathematical introduction to vectors (projections, addition/subtraction, scalar and vector product) is offered as the necessary framework for calculations in Newtonian mechanics. The basic vector and scalar quantities used in the description of motion (position, displacement, velocity, and acceleration) are introduced first, allowing for a kinematical description of motion. Formulas are derived, involving the aforementioned quantities for one-dimensional motion as well as two-dimensional projectile and circular motion. Force and mass, momentum, work and impulse, kinetic and potential energy and momentum, (torque and moment of inertia) are analyzed conceptually and are used to build up the basic formulas from point-mass or extended rigid object dynamics (Newton’s laws of motion, work-energy and impulse-momentum theorem). Different types of motion and new types of forces are analyzed throughout the course using the new concepts (projectile motion due to gravitational force; circular motion due to tension, friction or normal forces; mass-pulley coupled motion problems; collisions due to contact forces; harmonic motion due to spring force; rigid object rotational motion and internal forces; general law of gravity and satellite motion; fluid statics and buoyant force; fluid motion due to pressure difference; and wave motion and superposition and interference of waves if time permits). (GR)

PHYS-141 Electricity and Magnetism
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: PHYS-140 and MATH-101B
Advisory: MATH-101C
Accepted For Credit: CSU & UC
This course is a study of electric and magnetic fields, simple DC and AC circuits, and electromagnetic waves. (GR)

PHYS-142 Optics, Heat, and Modern Physics
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: PHYS-140 and MATH-101B
Advisory: PHYS-141 and MATH-101C
Accepted For Credit: CSU & UC
A review of wave physics is offered to introduce physical optics (interference, diffraction, polarization) and to prepare for quantum physics. The basic principles of quantum physics (wave-particle duality, uncertainty principle, wave functions and probability interpretation, Schrodinger’s wave equation and quantification) are covered. Wave mechanical calculations are performed on a few simple systems (free and trapped electron, harmonic oscillator) in order to illustrate energy quantification and tunneling. In special relativity, the historical significance of speed of light measurements is discussed in order to understand Einstein’s postulates of special relativity and contrast them with Newtonian relativity. Then appropriate thought experiments are used to establish time dilation, length contraction, and relativistic expressions for Newton’s second law, momentum, acceleration, total kinetic energy. In geometrical optics, the laws of reflection and refraction and their application to optical instruments containing lenses and mirrors are covered. In thermal physics, the concept of temperature and its meaning in kinetic gas theory is highlighted. A phenomenological study of thermal energy transfer and of the laws of thermodynamics is offered. If time permits, a descriptive overview of the big bang theory is presented, incorporating results from elementary particle physics, nuclear and general relativity. Labs in wave physics and optics as well as in atomic physics are available. (GR)
### POLITICAL SCIENCE

Division: Humanities, Social Sciences, and Mathematics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
<th>Units</th>
<th>Advisory</th>
<th>Accepted For Credit</th>
</tr>
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<tbody>
<tr>
<td>PS-102</td>
<td>American Government</td>
<td>54.00</td>
<td>3.00</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
</tr>
<tr>
<td>PS-103</td>
<td>International Relations</td>
<td>54.00</td>
<td>3.00</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
</tr>
<tr>
<td>PS-104</td>
<td>Introduction to Political Theory</td>
<td>54.00</td>
<td>3.00</td>
<td>ENGL-101A</td>
<td>CSU &amp; UC</td>
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<tr>
<td>PS-105</td>
<td>Comparative Government</td>
<td>54.00</td>
<td>3.00</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
</tr>
<tr>
<td>PS-106</td>
<td>Constitutional Law and the United States</td>
<td>54.00</td>
<td>3.00</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
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### PSYCHOLOGY

Division: Humanities, Social Sciences, and Mathematics

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<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
<th>Units</th>
<th>Advisory</th>
<th>Accepted For Credit</th>
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<tbody>
<tr>
<td>PSY-101</td>
<td>General Psychology</td>
<td>54.00</td>
<td>3.00</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
</tr>
<tr>
<td>PSY-102</td>
<td>Introduction to Experimental Psychology</td>
<td>54.00</td>
<td>3.00</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
</tr>
<tr>
<td>PSY-104</td>
<td>Murder in America</td>
<td>54.00</td>
<td>3.00</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
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<tr>
<td>PSY-105</td>
<td>Child Development</td>
<td>54.00</td>
<td>3.00</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
</tr>
<tr>
<td>PSY-106</td>
<td>Adolescent Development</td>
<td>54.00</td>
<td>3.00</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
</tr>
<tr>
<td>PSY-108</td>
<td>A Survey of Human Development</td>
<td>54.00</td>
<td>3.00</td>
<td>Eligible for ENGL-101A</td>
<td>CSU &amp; UC</td>
</tr>
</tbody>
</table>
PSY-112 Social Psychology
54.00 hrs lecture
Units: 3.00
Advisory: PSY-101 and ENGL-101A
Accepted For Credit: CSU & UC
A scientific study of the ways in which individuals are affected by social situations. Current theory and research on interpersonal attraction, prejudice and discrimination, attitude change, power, leadership, and control will be examined. (GC)

PSY-115 Abnormal Psychology
54.00 hrs lecture
Units: 3.00
Advisory: PSY-101; eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course introduces students to the major theoretical perspectives of psychopathology. It examines the categories of psychological disorders, their etiology, assessment of the disorders, current treatment methods, and possible causes of abnormal behavior. (GR)

PSY-120 Biological Psychology
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course focuses on the nervous system and how it affects human behavior and mental processes. Topics include the anatomy of the nervous system, neural communication, development, plasticity, psychoactive drugs, the senses, sleep-wake cycles, and sexual behavior. (GR)

PSY-139 Psychology in the Workplace
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: BA-139
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
This course applies principles of psychology to the workplace. Topics include combination skills, stress, cultural diversity, teamwork, understanding self and others, motivation, leadership, and other factors crucial to functioning effectively in the workplace. (GC)

RE-121 Real Estate Principles
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This is a fundamental real estate course covering basic laws and principles of California real estate. It provides background and terminology necessary for advanced study in specialized courses and is required in order to qualify for the real estate sales license examination. (GC)

RE-122 Real Estate Practice
54.00 hrs lecture
Units: 3.00
Prerequisite: RE-121 or a valid real estate license
Accepted For Credit: CSU
The day-to-day business of real estate including how to do listings, deposit receipts, open escrows, and obtain financing will be covered. This course is one of the required courses for the real estate salesperson license. (GC)

RE-124 Legal Aspects of Real Estate
54.00 hrs lecture
Units: 3.00
Prerequisite: RE-121 or valid real estate license or instructor’s approval
Accepted For Credit: CSU
This course is a study of California real estate law including rights incident to property ownerships and management, agency, contracts, and application of real estate transfer. Specific topics include conveyance, probate proceedings, trust deeds, foreclosure, and recent legislation governing real estate transactions. This course is one of the required courses for the broker’s license examination. (GC)

RE-126 Real Estate Finance
54.00 hrs lecture
Units: 3.00
Prerequisite: RE-121 or valid real estate license or instructor’s approval
Accepted For Credit: CSU
This real estate course covers the various types of lenders, their policies, and the market they serve. An in-depth analysis of the secondary market will be covered. This is one of the required courses for the broker’s examination. (GC)

RE-128 Real Estate Appraisal
54.00 hrs lecture
Units: 3.00
Prerequisite: RE-121 or valid real estate license
Accepted For Credit: CSU
An introductory course covering the purposes of appraisals; the appraisal process; and the different approaches, methods, and techniques used to determine the value of various types of property. This is one of the required courses for the broker’s license examination. (GC)

RE-131 Mortgage Loan Brokering and Lending
54.00 hrs lecture
Units: 3.00
This course introduces students to the aspects of mortgage brokering operations including office setup, loan processing, lending regulations, types of loans, loan submission, quality control, FICO credit scoring, loan packaging, shipping, and mortgage math. (GC)
RE-132  Real Estate Economics  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: RE-121  
Accepted For Credit: CSU  
This is an introductory course in real estate economics covering principles from both general economics and real estate practice. It discusses basic economic background for real estate analysis, how real estate markets function, major influences on real estate development, and real estate investment activities. Important economic concepts such as the monetary policy and the fiscal policy are included. (GC)

RE-145  Escrow Procedures  
54.00 hrs lecture  
Units: 3.00  
Advisory: RE-121, valid real estate license, or escrow employment  
This course is a study of the escrow company and its role in the transfer of real property with emphasis on the legal aspects, the requirements of a valid escrow, and the practical use of such companies in the real estate industry. (GC)

RE-149  Real Estate Property Management  
54.00 hrs lecture  
Units: 3.00  
Advisory: RE-121 or valid real estate license  
Accepted For Credit: CSU  
This course studies the day-to-day problems encountered by owners and managers of residential income properties. The application of sound business principles in the pursuit of operational effectiveness is emphasized. (GC)

RT-101  Principles of Respiratory Therapy I  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ENGL-101A; MATH-153 or MATH-155; CHEM-109 or CHEM-106A; BIOL-103A  
Accepted For Credit: CSU  
This course presents basic theory and rationale for respiratory care. It includes the history and organization of respiratory therapy services, basic cardiopulmonary anatomy and physiology, medical gas therapy theory, and an introduction to pathophysiology. (GR)

RT-101L  Beginning Clinical Practice  
54.00 hrs lab  
Units: 1.00  
Corequisite: RT-101, RT-102, RT-103, and RT-145  
Accepted For Credit: CSU  
This course introduces students to the care of patients requiring respiratory therapy modalities. It also covers beginning level assessment skills, patient interviewing techniques, and the establishment and monitoring of therapeutic equipment systems. Repeatable = 1 time (CR)

RT-102  Beginning Laboratory  
108.00 hrs lab  
Units: 2.00  
Prerequisite: MATH-153 or MATH-155; ENGL-101A; BIOL-103A; CHEM-109 or CHEM-106A  
Accepted For Credit: CSU  
This course provides laboratory practice of beginning-level therapist skills including administration of medical gases, medicated aerosols, and incentive spirometry techniques. Repeatable = 1 time (CR)

RT-103  Basic Patient Care  
27.00 hrs lab  
Units: 0.50  
Prerequisite: Admission to the RT program  
Accepted For Credit: CSU  
This course provides simulated practice of patient care skills in a multimedia setting. Repeatable = 1 time (CR)

RT-104A  Principles of Respiratory Therapy II  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: RT-101, RT-101L, RT-102, RT-103  
Accepted For Credit: CSU  
This course is designed to study theory related to intermediate level respiratory care skills including endotracheal intubation, management of artificial airways, humidity and aerosol therapy, beginning cardiac anatomy and physiology, and respiratory care pharmacology. Repeatable = 1 time (GR)

RT-104B  Principles of Respiratory Therapy III  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: RT-101  
Advisory: BIOL-103B, BIOL-106  
Accepted For Credit: CSU  
Theory related to analysis of cardiopulmonary assessment findings and cleaning and sterilization of respiratory care equipment. This course also includes study of additional fundamentals of respiratory physiology including assessment of oxygenation and hypoxia, beginning acid base balance, and arterial blood gas analysis. (GR)
### RT-105A Intermediate Laboratory I
- **54.00 hrs lab**
- **Units:** 1.00
- **Prerequisite:** Admission to the RT program; completion of semester 1 of RT program
- **Accepted For Credit:** CSU
- This course provides laboratory practice of intermediate-level therapist skills including chest assessment, hyperinflation therapy, chest physical therapy, and airway management. Repeatable = 1 time (CR)

### RT-105B Intermediate Laboratory II
- **27.00 hrs lab**
- **Units:** 0.50
- **Prerequisite:** RT-104A, RT-104B
- **Accepted For Credit:** CSU
- This course provides laboratory practice of advanced techniques required in emergency and critical care settings within the laboratory confines. Repeatable = 1 time (CR)

### RT-106 Intermediate Clinical Practice
- **108.00 hrs lab**
- **Units:** 2.00
- **Prerequisite:** Admission to the RT program; completion of semester 1 of RT program
- **Accepted For Credit:** CSU
- This is a supervised clinical experience course at area hospitals. It emphasizes the practice of beginning and intermediate-level problem-solving and technical skills including assessment, oxygen therapy, humidity and aerosol administration, and chest physical therapy; or hyperinflation therapy, airway management, and beginning artificial ventilation. Repeatable = 1 time (CR)

### RT-107 Intermediate Clinical Practice
- **216.00 hrs lab**
- **Units:** 4.00
- **Prerequisite:** Admission to the RT program; completion of semester 1 of RT program
- **Accepted For Credit:** CSU
- This is a supervised clinical experience course at area hospitals. It emphasizes the practice of beginning and intermediate-level problem-solving and technical skills including assessment, oxygen therapy, humidity and aerosol administration, chest physical therapy, hyperinflation therapy, airway management and beginning artificial ventilation. Repeatable = 1 time (CR)

### RT-108 Basic Principles of Respiratory Pathophysiology
- **18.00 hrs lecture**
- **Units:** 1.00
- **Prerequisite:** Admission to the RT program; completion of semester 1 of RT program
- **Accepted For Credit:** CSU
- This course emphasizes the principles of common pathophysiologic conditions encountered by respiratory therapy practitioners. Repeatable = 1 time (CR)

### RT-130A Advanced Respiratory Therapy I
- **45.00 hrs lecture**
- **Units:** 2.50
- **Prerequisite:** RT-104A, RT-104B
- **Accepted For Credit:** CSU
- The focus of this course is the study of advanced respiratory care. The course includes invasive and non-invasive monitoring, hemodynamic monitoring systems, advanced arterial blood gas interpretation, x-ray, clinical laboratory and electrocardiogram interpretation, and carbon dioxide transport and monitoring. Repeatable = 1 time (GR)

### RT-130B Advanced Respiratory Therapy II
- **27.00 hrs lecture**
- **Units:** 1.50
- **Prerequisite:** RT-130A
- **Accepted For Credit:** CSU
- This course presents concepts of advanced respiratory care with emphasis on recognition, interpretation, and treatment of cardiopulmonary anatomical and physiological alterations of the body as a consequence of disease or trauma. Repeatable = 1 time (GR)

### RT-130L Advanced Clinical Practice
- **108.00 hrs lab**
- **Units:** 2.00
- **Prerequisite:** RT-131A
- **Corequisite:** RT-133
- **Accepted For Credit:** CSU
- This is a supervised clinical experience course at area hospitals. It emphasizes the practice of advanced-level technical skills including procedures employed in emergency care situations, artificial airway maintenance and discontinuance, arterial blood sampling measurements, and initiation and termination of mechanical ventilatory life support. Repeatable = 1 time (CR)

### RT-131A Principles of Mechanical Ventilation I
- **45.00 hrs lecture**
- **Units:** 2.50
- **Prerequisite:** RT-104A, RT-104B, RT-105B
- **Accepted For Credit:** CSU
- This course presents the scientific basis for continuous mechanical ventilatory interventions employed in clinical practice of respiratory care with an emphasis on classification, selection, setup, maintenance, complications, adjuncts to and discontinuance of mechanical ventilatory life support. Repeatable = 1 time (CR)

### RT-131B Principles of Mechanical Ventilation II
- **45.00 hrs lecture**
- **Units:** 2.50
- **Prerequisite:** RT-131A
- **Accepted For Credit:** CSU
- This course builds on the foundation of Mechanical Ventilation already learned. Therapeutic interventions, complications and effects, discontinuation, and special techniques of mechanical ventilation will be presented. Repeatable = 1 time (GR)

### RT-132 Advanced Laboratory
- **54.00 hrs lab**
- **Units:** 1.00
- **Prerequisite:** RT-104A and RT-104B
- **Corequisite:** RT-130A
- **Accepted For Credit:** CSU
- This course provides laboratory practice of advanced respiratory therapy skills including establishment, stabilization, maintenance, and discontinuance of endotracheal and tracheotomy tubes; arterial blood sampling techniques; radiographic and electrocardiogram interpretation; and invasive and non-invasive monitoring. Repeatable = 1 time (CR)

### Mechanical Ventilation Laboratory
- **108.00 hrs lab**
- **Units:** 2.00
- **Prerequisite:** RT-131A
- **Accepted For Credit:** CSU
- This course provides laboratory practice of advanced skills related to the safe application and initiation of mechanical ventilation. Students will become familiar with multiple neonatal and adult mechanical ventilators as well as gain an increased understanding of the various modes offered. Repeatable = 1 time (CR)
RT-134  Neonatal and Pediatric Respiratory Care
18.00 hrs lecture
Units: 1.00
Prerequisite: Admission to the RT Program; completion of first two semesters of RT Program; BIOL-103B, BIOL-106, and PHYS-108
Accepted For Credit: CSU
This course addresses fetal development and special problems in the adaptation of respiratory care procedures and techniques to the needs of the neonatal and developing child. Repeatable = 1 time (GR)

RT-134L  Clinical Practicum in Neonatal and Pediatric Respiratory Care
81.00 hrs lab
Units: 1.50
Prerequisite: RT-134
Accepted For Credit: CSU
This course offers clinical application of respiratory care procedures and techniques to the ill neonate and developing child. Repeatable = 1 time (CR)

RT-135  Computer Simulation for Respiratory Care
27.00 hrs lab
Units: 0.50
Prerequisite: Admission to the RT program; completion of semesters 1, 2, and 3 of RT program
This course prepares students for the Respiratory Care National Board Clinical Simulation Examination which requires specialized knowledge in solving patient management problems written in a branching logic format. Students will practice basic computer skills involving data entry and retrieval. Repeatable = 2 times (GR) (first time), (CR) (subsequent enrollment)

RT-136  Critical Care Clinical Practice
189.00 hrs lab
Units: 3.50
Prerequisite: RT-130L
Accepted For Credit: CSU
This is a supervised clinical experience course at area hospitals. Advanced level respiratory care skills including cardiopulmonary assessment, management, evaluation, and decision-making processes involved in the care of the ICU patient are emphasized. Students in this course practice as a member of the hospital health care team. Repeatable = 1 time (GR)

RT-137  Home Respiratory Care and Pulmonary Rehabilitation
9.00 hrs lecture
Units: 0.50
Prerequisite: Admission to the RT program; completion of semesters 1 and 2 of RT program
Accepted For Credit: CSU
This course provides an overview of the respiratory therapist’s involvement in the home care industry and rehabilitation of the patient coping with chronic cardiopulmonary disease. Decision making, formulation of care plan, and patient teaching are emphasized in this course. Repeatable = 1 time (GR)

RT-138  Specialty Rotations in Respiratory Care
27.00 hrs lab
Units: 0.50
Prerequisite: RT-130A
Accepted For Credit: CSU
This is a supervised clinical experience course at area home care establishments, local hospitals, and pulmonary physicians’ office. Students will have the opportunity to select experiences that match their interests including individual rotations with physicians, participation in ongoing pulmonary rehabilitation programs, and visitation of patients receiving respiratory home care. Repeatable = 1 time (CR)

RT-139  Pulmonary Function Testing
18.00 hrs lecture
Units: 1.00
Prerequisite: Admission to the RT program
Accepted For Credit: CSU
This course provides an in-depth survey of various pulmonary laboratory methods to detect the presence and degree of respiratory impairment/disease. Repeatable = 1 time (GR)

RT-139L  Clinical Practice in Pulmonary Function Testing
27.00 hrs lab
Units: 0.50
Corequisite: RT-139
Accepted For Credit: CSU
This course provides supervised clinical experience at area hospitals. Various pulmonary laboratory methods for detecting the presence of respiratory impairment/disease are emphasized. Repeatable = 1 time (CR)

RT-145  Cardio-Pulmonary Resuscitation (CPR)
Basic Life Support (BLS)
9.00 hrs lecture
Units: 0.50
Prerequisite: Admission to RT/RN/PTA program; other students may enroll if space is available
This course meets the American Heart Association requirements for basic life support CPR training for health care professionals only. Repeatable = 1 time (GC)

SOCIOLGY
Division: Humanities, Social Sciences, and Mathematics

SOC-101  Introduction to Sociology
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
This course is an exploration of our culturally diverse society from a multi-perspective approach. Systematic study of social human behavior and human groups with an emphasis on the influence of social relationships on people’s attitudes, behaviors, and how societies are established and changed. (GC)

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Did you know???
The more education you obtain, the higher your earning potential and the lower your chance of being unemployed.
Source: Bureau of Labor and Statistics, 2010
**SOC-102 Social Problems of a Diverse Society**
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course analyzes the nature and characteristics of social problems within the context of sociological theory. The course examines four major areas of social problems. First, it explores social problems of behavioral deviance, such as those related to sexual behavior, alcohol and drugs, violence, and crime. Second, it examines social problems of inequality, including economic, racial/ethnic, gender, and sexual orientation inequalities. Third, it looks at problems of social institutions, such as problems situated in government, work, education, health care, and the family. Fourth, it analyzes global social problems, including those related to the environment, war, and urbanization. This course introduces theoretical frameworks for understanding the causes and effects of these problems, as well as potential solutions for these problems.  
(GC)

**SOC-103 Social Science Research Methods**
54.00 hrs lecture  
Units: 4.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU  
This course introduces students to research methods used in the social sciences. It examines critical issues and techniques in research design, data collection, and data analysis. It also investigates the ethical responsibilities of social science researchers. This course contains a lab component that provides students with practical experience in evaluating and conducting social science research.  
(GC)

**SOC-105 Marriage and Family**
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course deals with a study of the family as an institution. Emphasis is on developing interpersonal relationships, mate selection, and marital and parental roles. This course will study alternative lifestyles, sex roles in transition, and survey of current literature.  
(GC)

**SOC-106 Chicano Culture I**
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: CHS-101  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course examines the social, cultural, political, and economic heritage of the Chicanos and their contribution to American society.  
(GR)

**SOC-108 Social Inequalities**
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course focuses on various forms of social inequalities that exist within the U.S. It examines patterns of economic, status, and political inequalities on the basis of multiple factors such as class, gender, sexual orientation, race, and ethnicity. The course analyzes classical and contemporary explanations of inequalities and the consequences of inequalities on individuals and groups. It also explores social mobility and changes in the system of inequalities.  
(GC)

**SOC-142 Sociology of Sport**
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: KIN-242  
Accepted For Credit: CSU  
This course will examine the history of sport and its political, social, and economic impact on public opinion. This will include an investigation into the phenomenon of sport including cultural stratification, race, gender, education, economics, politics, and the mass media.  
(GC)

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**SPANISH**

**SPAN-101A Elementary Spanish**
90.00 hrs lecture, 18.00 hrs lab  
Units: 5.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is the first half of Intermediate Spanish and a continuation of the SPAN-101 series. The course includes a more in-depth review of grammar, composition, development of conversation skills through an introduction to Spanish and Latin-American literature. Readings include short stories, essays, dramas, poetry, and journalism articles in Spanish.  
(GR)

**SPAN-101B Elementary Spanish**
90.00 hrs lecture, 18.00 hrs lab  
Units: 5.00  
Prerequisite: SPAN-101A or two years high school Spanish, or permission from instructor  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
This course is the second half of Intermediate Spanish and a continuation of the SPAN-101 series. The course includes a more in-depth review of grammar, composition, development of conversation skills through an introduction to Spanish and Latin-American literature. Readings include short stories, essays, dramas, poetry, and journalism articles in Spanish.  
(GR)

**SPAN-102A Intermediate Spanish**
90.00 hrs lecture, 18.00 hrs lab  
Units: 5.00  
Prerequisite: SPAN-101B or three years of high school Spanish  
Accepted For Credit: CSU & UC  
This course is the first half of Intermediate Spanish and a continuation of the SPAN-101 series. The course includes a more in-depth review of grammar, composition, development of conversation skills through an introduction to Spanish and Latin-American literature. Readings include short stories, essays, dramas, poetry, and journalism articles in Spanish.  
(GR)

**SPAN-102B Intermediate Spanish**
90.00 hrs lecture, 18.00 hrs lab  
Units: 5.00  
Prerequisite: SPAN-102A  
Accepted For Credit: CSU & UC  
This course is the second half of Intermediate Spanish and a continuation of SPAN-102A. The course continues with a more in-depth review of advanced grammar, composition, and development of conversation skills through an introduction to Spanish and Latin-American literature. Readings include short stories, essays, dramas, poetry, and journalism articles in Spanish.  
(GR)
SPAN-121A  **Beginning Conversational Spanish**  
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU  
This course teaches essentials in Spanish conversation leading to the development of oral use of the Spanish language in everyday situations. Students will experience extensive oral practice of the language as well as essential grammatical fundamentals. (GC)  

SPAN-121B  **Beginning Conversational Spanish**  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: SPAN-121A or two years of high school Spanish  
Accepted For Credit: CSU  
This course continues teaching the essentials in Spanish conversation leading to the development of oral use of the Spanish language in everyday situations. Students will experience extensive oral practice of the language as well as essential grammatical fundamentals. (GC)

**SPEECH AND COMMUNICATION STUDIES**

Division: Fine Arts, Business, and Communication Studies

SPCH-101  **Introduction to Public Speaking**  
54.00 hrs lecture, 18.00 hrs lab  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
Practice public speaking through delivery techniques, organizing an outline and applying research methodology to support speech topic. (GR)  

SPCH-102  **Small Group Communication/Critical Thinking**  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ENGL-101A  
Accepted For Credit: CSU & UC  
Enhance small group communication and team building through the study of theories, concepts, and practices of effective group decision making and problem solving. Emphasis on logical reasoning and the evaluation of evidence. (GR)  

SPCH-103  **Interpersonal Communication**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
Study and practice the principles of relational communication in intrapersonal and interpersonal relationships at home and work. (GR)  

SPCH-104  **Critical Thinking/Persuasion**  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ENGL-151B  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
Learn persuasive techniques and develop critical thinking skills necessary to evaluate personal and public messages. Emphasis on logical reasoning, evaluation of evidence, and the development of a persuasive message. (GR)  

SPCH-105  **Intercultural Communication**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
Study the diversity of styles of verbal and nonverbal communication in different cultures. Emphasis on communicating effectively across cultures. (GR)  

SPCH-106  **Critical Thinking/Argumentation and Debate**  
54.00 hrs lecture, 18.00 hrs lab  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
Develop critical thinking through oral advocacy and debate. Emphasis on both written and oral arguments based on logic and reasoning. (GR)  

SPCH-107  **Leadership Communication**  
54.00 hrs lecture, 18.00 hrs lab  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
Explore and analyze how leadership theory can inform and direct the way leadership is practiced. Analyze traditional and interactional theories of leadership including the influences of culture and gender on leadership. Emphasis is on theory and practice. (GC)  

SPCH-108  **Gender Communication**  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU & UC  
Examine the influence of gender and culture on communication in personal relationships, organizations, mass media and society. (GR)  

SPCH-110A1  **Forensics Workshop**  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
Participate in or attend public speeches or performances in order to encourage community involvement. Repeatable = 3 times (GR)  

SPCH-110A2  **Forensics Workshop**  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
Participate in or attend public speeches or performances in order to encourage community involvement. Repeatable = 3 times (GR)  

SPCH-110A3  **Forensics Workshop**  
27.00 hrs lecture, 81.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
Participate in platform forensic speech activities including: informative speaking, persuasive speaking, impromptu, extemporaneous, speech to entertain, or communication analysis. Repeatable = 3 times (GC)  

SPCH-112A1  **Argumentation and Debate Workshop**  
9.00 hrs lecture, 27.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
Participate in or attend public meetings or debates in order to encourage critical thinking and community involvement. Repeatable = 3 times (GR)
SPCH-112A Argumentation and Debate Workshop
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
Participate in or attend public meetings or debates in order to encourage critical thinking and community involvement. Repeatable = 3 times (GR)

SPCH-112A3 Argumentation and Debate Workshop
27.00 hrs lecture, 81.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Participate in argumentation and debate; research significant contemporary problems; analyze issues, evidence, and logic; and present researched arguments. Repeatable = 3 times (GR)

SPCH-114A1 Oral Interpretation Workshop
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Accepted For Credit: CSU
Participate in or attend public performances of all genres of literature with an emphasis on the analysis and interpretation of the material. Repeatable = 3 times (GR)

SPCH-114A2 Oral Interpretation Workshop
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Accepted For Credit: CSU
Participate in or attend public performances of all genres of literature with an emphasis on the analysis and interpretation of the material. Repeatable = 3 times (GR)

SPCH-114A3 Oral Interpretation Workshop
27.00 hrs lecture, 81.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
Participate in the oral interpretation of literature (poetry, prose, or drama) with an emphasis on the analysis and interpretation of the literature. Repeatable = 3 times (GR)

SPCH-115 Career Communication
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: BA-115
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
Develop vital communication skills for global and diverse professional environments including presentational skills, interviewing, meeting management, small group communication, and leadership skills. (GR)

SPCH-116 Listening Techniques
18.00 hrs lecture
Units: 1.00
Accepted For Credit: CSU
Examine listening styles and practice listening skills for college, career, and personal development. Emphasis is on the benefits of listening, listening theory, and tips for improving listening. (GR)

SPCH-122 Family Communication
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
Explore family communication processes, roles, decision-making techniques, and conflict management in traditional and nontraditional families. (GR)

SPCH-130 Oral Communication of Literature
54.00 hrs lecture, 18.00 hrs lab
Units: 3.00
Cross-referenced Course: TD-130
Advisory: ENGL-151B
Accepted For Credit: CSU & UC
Using performance as a communication concept, students will explore performance theory and apply and express cultural identities and the meanings they produce as communicators and performers. (GR)

SPCH-190A Speech Communication Lab Consultant
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Advisory: SPCH-101 or instructor recommendation
Accepted For Credit: CSU
Designed to help students improve their personal and professional communication capabilities. Teaching-learning techniques include assistance with thesis development, outlining, research and delivery skills. Repeatable = 3 times to a maximum of 6 units for SPCH-190A-C. (GC)

SPCH-190B Speech Communication Lab Consultant
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: SPCH-101 or instructor recommendation
Accepted For Credit: CSU
Designed to help students improve their personal and professional communication capabilities. Teaching-learning techniques include assistance with thesis development, outlining, research and delivery skills. Repeatable = 2 times to a maximum of 6 units for SPCH-190A-C. (GC)

SPCH-190C Speech Communication Lab Consultant
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Advisory: SPCH-101 or instructor recommendation
Accepted For Credit: CSU
Designed to help students improve their personal and professional communication capabilities. Teaching-learning techniques include assistance with thesis development, outlining, research and delivery skills. Repeatable = to a maximum of 6 units for SPCH-190A-C. (GC)
TD-102 Introduction to Theatre Appreciation
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: HIST-107
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is an examination and application of theatre elements that relate directly to the actor including, but not limited to, criticism, emotion, stage movement, vocal techniques, theatrical terminology, rehearsal and performance techniques, and script analysis. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 1 time (GR)

TD-109 Theatre for Today
54.00 hrs lecture, 3.60 hrs lab
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is designed for those students who wish to explore and experience the contemporary world of theatre and how it relates to film, video, festivals, and the entertainment industry. This course examines all aspects of production: designing, producing, the audience experience, and employment opportunities. Students will learn through reading and research, viewing videos, attending live and recorded events, student-generated reports. (GR)

TD-110 Introduction to Acting
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
This course is an advanced study in the principals and practices of contemporary acting techniques. Students will analyze and evaluate the acting theories of the Stanislavski system of acting, as assessed by the 20th century American acting leaders; i.e. Uta Hagen, Stella Adler, Michael Shurtleff, Lee Strasberg, etc. Students will apply these principles to their scene work, improvisation, workshop exercises and evaluate their progress and that of their classmates. Repeatable = 1 time (GR)

TD-111 Intermediate Acting – Scene Study
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: TD-110
Accepted For Credit: CSU
This course is an examination and application of theatre elements that relate directly to the actor including, but not limited to, criticism, emotion, stage movement, vocal techniques, theatrical terminology, rehearsal and performance techniques, and script analysis. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 1 time (GR)

TD-112 Acting Styles – Classical
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: TD-110
Accepted For Credit: CSU & UC
This course is a study of dramatic literature for the purpose of performance, including major study of Shakespeare comedies, tragedies, and histories. Background examination and performance appraisal will highlight each area of study. The emphasis is upon performance of characters in monologue and scene work from selected plays. Selected plays will be studied and several will be viewed both live and on video. Repeatable = 3 times (GR)

TD-113 Screenwriting Basics
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
This course will examine the basics of writing for film, examine the mechanics of both short format and feature length movies, and examine the craft of outlining, treatments, character biographies, dialogue, and pitching. (GC)
TD-114  Acting for the Camera
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Accepted For Credit: CSU & UC
This course will include analysis and practical study of
techniques and skills necessary for and peculiar to performing
in front of the camera. Emphasis is placed on acting, but
includes daily work in practical cinematography, directing,
script supervision, and crewing for all styles of film. Repeatable
= 1 time (GR)

TD-115A  Theatre Improvisation
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & UC
Students will learn how to improvise a story, character, setting,
and costume. They will create through pantomime as well as
vocal techniques. There will be public performances on tour
and in conjunction with the student-directed one acts.
Requires attendance at selected events offered by Ohlone
College at the Gary Soren Smith Center for the Fine and
Performing Arts. Repeatable = 1 time (GR)

TD-116  Acting Laboratory
54.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This laboratory class applies the knowledge and techniques
found in the production and technique classes. (GC)

TD-117A  Audition/Portfolio Preparation
18.00 hrs lecture, 18.00 hrs lab
Units: 0.50
Accepted For Credit: CSU
This course is designed to help prepare students for a
professional audition/interview by developing performance
selections, portfolio layouts, and presentation techniques for
regional, summer stock, film/TV, and festival venues. Repeatable = 3 times (CR)

TD-117A1  Audition/Portfolio Preparation
18.00 hrs lecture, 2700 hrs lab
Units: 1.00
Accepted For Credit: CSU
This course is designed to help prepare students for a
professional audition/interview by developing performance
selections, portfolio layouts, and presentation techniques for
regional, summer stock, film/TV, and festival venues. Repeatable = 3 times (CR)

TD-117A2  Audition/Portfolio Preparation
27.00 hrs lecture, 2700 hrs lab
Units: 2.00
Accepted For Credit: CSU
This course is designed to help prepare students for a
professional audition/interview by developing performance
selections, portfolio layouts, and presentation techniques for
regional, summer stock, film/TV, and festival venues. Repeatable = 3 times (CR)

TD-117D  Dance Performance Preparation
54.00 hrs lab
Units: 1.00
This course is designed to prepare the student for professional
dance performance. The student will learn
dance styles and techniques, learn performance techniques,
and then perform on stage in a professional level venue with
a live audience. Repeatable = 3 times (GC)

TD-118  Survey of Acting Techniques
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & UC
This course is an active survey of, and participation in, a variety
of public performance techniques, including scenework,
monologues, reader’s theatre, improvisation, radio plays, and
theatre games. Repeatable = 2 times (GC)

TD-119  Directing for the Stage
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Advisory: TD-110 and TD-114
Accepted For Credit: CSU & UC
This course is a study of the background and techniques of the
director in theatre with an emphasis on practical experience in
directing through class projects and public performances. (GR)

TD-120A3  Student Repertory Theatre
162.00 hrs lab
Units: 3.00
Prerequisite: Auditions (for actors only)
Advisory: TD-120A3 or TD-120A4
Accepted For Credit: CSU & UC
This class is a combination of professional and educational
theatre. Students will participate in acting and/or technical
roles in a repertory company. There will be up to six
productions, one of which may be a children’s/family program.
Members of the company will be expected to participate in all
phases of production. Repeatable = 3 times to a maximum of
9 units (GR)

TD-120B4  Student Repertory Theatre
216.00 hrs lab
Units: 4.00
Prerequisite: Auditions (for actors only)
Advisory: TD-120A3 or TD-120A4
Accepted For Credit: CSU & UC
This class is a combination of professional and educational
theatre. Students will participate in acting and/or technical
roles in a repertory company. There will be up to six
productions, one of which may be a children’s/family program.
Members of the company will be expected to participate in all
phases of production, particularly in the capacity of producer,
director, designer, or other position of artistic or business
leadership. Repeatable = 3 units to a maximum of 9 units (GR)

TD-121A  Dance Rehearsal and Performance
108.00 hrs lab
Units: 2.00
Advisory: Co-enrollment in a dance technique class
Accepted For Credit: CSU & UC
This class is an educational setting for dance performance. The
students will learn the ins and outs of a theatrical dance
performance. Each student, regardless of skill level, will be
given the opportunity to perform on stage in a professional
setting with the security of an educational environment. Repeatable = 3 times (GC)

TD-121B  Dance Rehearsal and Performance
162.00 hrs lab
Units: 3.00
Advisory: It is highly recommended that each student is
coenrolled in a dance technique class
Accepted For Credit: CSU & UC
This class is an educational setting for dance performance. The
student will learn the ins and outs of a theatrical dance
performance. Each student, regardless of skill level, will be
given the opportunity to perform on stage in a professional
setting with the security of an educational environment. Repeatable = 2 times (GC)
TD-121C  Dance Rehearsal and Performance  
216.00 hrs lab  
Units: 4.00  
Advisory: It is highly recommended that each student is co-enrolled in a dance technique class  
Accepted For Credit: CSU & UC  
This class is an educational setting for dance performance. The student will learn the ins and outs of a theatrical dance performance. Each student, regardless of skill level, will be given the opportunity to perform on stage in a professional setting with the security of an educational environment. Repeatable = 2 times (GC)

TD-121L  Dance Rehearsal and Performance Lab  
36.00 hrs lab  
Units: 0.00  
This class is an educational setting for dance performance. The student will learn the ins and outs of a theatrical dance performance. Each student, regardless of skill level, will be given the opportunity to perform on stage in a professional setting with the security of an educational environment. This class is especially geared toward the first time performer. Not applicable to associate degree. Repeatable = 3 times (NG)

TD-124  Rehearsal and Performance  
216.00 hrs lab  
Units: 4.00  
Prerequisite: Auditions  
Advisory: Eligible for ENGL-151B and ENGL-163; TD-110  
Accepted For Credit: CSU & UC  
This class is for students performing in a major college production. Enrollment is for the duration of the production. Repeatable = 3 times (GR)

TD-125  Summerfest – Principals  
360.00 hrs lab  
Units: 7.00  
Prerequisite: Audition  
Accepted For Credit: CSU & UC  
This course is normally taught as an eight to ten-week summer session course and is designed to familiarize students with the principles and complexities involved in the preparation and production of the Summerfest production in a principal role. Specific instruction will be given in acting, movement, speech, singing, and accents as they relate to the style and history of the period and to musical theatre specifically. Repeatable = 3 times (GC)

TD-126  Summerfest – Featured Parts  
315.00 hrs lab  
Units: 6.00  
Prerequisite: Audition  
Accepted For Credit: CSU & UC  
This course is normally taught as an eight to ten-week summer session course and is designed to familiarize students with the principles and complexities involved in the preparation and production of the Summerfest production in a feature role. Specific instruction will be given in acting, movement, speech, singing, and accents as they relate to the style and history of the period. Repeatable = 3 times (GC)

TD-127  Summerfest – Chorus and Instrument Members  
260.00 hrs lab  
Units: 5.00  
Prerequisite: Audition  
Accepted For Credit: CSU & UC  
This course is normally taught as an eight to ten-week summer session course and is designed to familiarize students with the principles and complexities involved in the preparation and production of the Summerfest production as a chorus or orchestra member. Specific instruction will be given in acting, movement, speech, music, and singing as they relate to the style and history of the period. Repeatable = 3 times (GC)

TD-129  Summerfest – Technicians  
378.00 hrs lab  
Units: 7.00  
Advisory: TD-150  
Accepted For Credit: CSU & UC  
This course is normally taught as an eight to ten-week summer session course. It is designed to familiarize and teach students the various technical aspects, such as set construction, lighting, costuming, makeup, publicity, and house management needed for the preparation and production of a major theatrical Summerfest production. Repeatable = 3 times (GC)

TD-130  Oral Communication of Literature  
54.00 hrs lecture, 18.00 hrs lab  
Units: 3.00  
Cross-referenced Course: SPCH-130  
Advisory: ENGL-151B  
Accepted For Credit: CSU & UC  
Using performance as a communication concept, students will explore performance theory and apply and express cultural identities and the meanings they produce as communicators and performers. (GR)

TD-132  Voice and Diction  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: SPCH-132  
Advisory: ENGL-151A  
Accepted For Credit: CSU & UC  
Understand and improve the speaking voice through oral exercises that focus on expressiveness and articulation. Increase vocabulary and use the International Phonetic Alphabet in transcription and pronunciation. (GR)

TD-141A  Introduction to Ballet  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Advisory: Medical check within last year  
Accepted For Credit: CSU & UC  
This class introduces the rudiments of classical ballet to the beginning dance student. Students will develop the strength and coordination to perform the technical skills of basic ballet through barre and center work and by learning simple movement combinations. Ballet terminology will be covered. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)

TD-141B  Intermediate Ballet  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Advisory: Medical check within last year  
Accepted For Credit: CSU & UC  
This class continues the training in the rudiments of classical ballet for the beginning-intermediate student. The students will further develop the technical skills to perform intermediate-level steps and combinations of movement. Ballet terminology will be covered. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)

TD-141A  Introduction to Jazz Dance  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Advisory: Medical check within last year  
Accepted For Credit: CSU & UC  
Students will learn the basic skill of jazz dance with emphasis on body alignment, strength, and coordination. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Lab Hours</th>
<th>Units</th>
<th>Advisory</th>
<th>Accepted For Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TD-142B</td>
<td>Intermediate Jazz Dance</td>
<td>18.00</td>
<td>54.00</td>
<td>2.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>Students will work on more advanced skills and styles inherent in jazz dance. Class work will deal with technical skills, combinations of steps, and exploration of composition in jazz dance form. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>TD-142C</td>
<td>Advanced Jazz Dance</td>
<td>18.00</td>
<td>54.00</td>
<td>2.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>Students will complete advanced skills inherent in jazz dance. This advanced level technical jazz dance class will deal with leaps, turns, and technique as well as dance composition. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>TD-143A</td>
<td>Introduction to Tap</td>
<td>18.00</td>
<td>54.00</td>
<td>2.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>Students will study basic tap dance techniques and elementary tap dances. This class provides students with the opportunity to develop coordination, rhythm, and performances skills. Some history of tap will be included. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>TD-143B</td>
<td>Intermediate Tap</td>
<td>18.00</td>
<td>54.00</td>
<td>2.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>Students will develop intricate skills in tap dancing by studying intermediate-level movements and combinations with some provision for student composition of dance. Performance skills will be included. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>TD-143C</td>
<td>Advanced Tap Dance</td>
<td>18.00</td>
<td>54.00</td>
<td>2.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>Students will continue to develop intricate skills in tap dancing by studying advanced rhythm patterns, movements, and combinations with some provision for student composition of dance. Performance skills will be included. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>TD-144A</td>
<td>Introduction to Modern Dance</td>
<td>18.00</td>
<td>54.00</td>
<td>2.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>Students will learn basic skills of modern dance with emphasis on body alignment, strength, coordination, rhythmic movement, and creative expression. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>TD-144B</td>
<td>Intermediate Modern Dance</td>
<td>18.00</td>
<td>54.00</td>
<td>2.00</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>Students will continue to prepare their bodies as an instrument for dance, progressing to longer, faster-paced, more diversified, and more difficult movement combinations. Coursework will include some creative dance experiences, abstract dance, and musical mime. Requires attendance at selected events offered by Ohlone College at the Gary Soren Smith Center for the Fine and Performing Arts. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>TD-145A2</td>
<td>Introduction to Ballroom Dance</td>
<td>36.00</td>
<td></td>
<td>0.50</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>Students will learn basic steps and skills of ballroom dance with emphasis on body alignment, coordination, rhythmic movement, and creative expression. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>TD-145B2</td>
<td>Intermediate Ballroom Dance</td>
<td>36.00</td>
<td></td>
<td>0.50</td>
<td>Medical check within last year</td>
<td>CSU &amp; UC</td>
<td>This course is an in-depth study of contemporary ballroom dance focusing on intricate partnering, balance, rhythm, styling, and step combinations and patterns. Repeatable = 3 times (GC)</td>
</tr>
</tbody>
</table>
TD-146L  Open Dance Lab
20.00 hrs lab
Units: 0.00
Corequisite: The student must currently be enrolled in a
dance class on campus
The student will have supervised and tutored studio time to
perfect skills and techniques learned in the dance class. Not
applicable to associate degree. Repeatable = 3 times (NG)

TD-147A  Dance Company Repertoire I
108.00 hrs lab
Units: 2.00
Advisory: It is highly recommended that the student be
co-enrolled in an intermediate or advanced level jazz or
modern dance technique class
Accepted For Credit: CSU & UC
The student will be introduced to the art of performance
dance. The student will utilize a fusion of diverse dance
disciplines, cultural backgrounds, and personal experience for
the expression and performance of advanced level
choreography. The student will be introduced to new
choreography with each enrollment. There may be
performances off campus, such as field trips and tours.
Repeatable = 3 times (GR)

TD-147B  Dance Company Repertoire II
108.00 hrs lab
Units: 2.00
Advisory: It is highly recommended that the student be
co-enrolled in an intermediate or advanced level dance
 technique class
Accepted For Credit: CSU & UC
The student will continue to explore the art of performance
dance. The student will utilize a fusion of diverse dance
disciplines, cultural backgrounds, and personal experience for
the expression and performance of advanced level
choreography. The student will be introduced to new
choreography with each enrollment. There may be
performances off campus, such as field trips and tours.
Repeatable = 3 times (GR)

TD-148A3  Introduction to Hip Hop
54.00 hrs lab
Units: 1.00
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
Students will learn basic skills of contemporary street jazz/hip
hop dance with emphasis on body alignment, strength,
coordination, rhythmic movement, and creative expression.
Repeatable = 3 times (GC)

TD-148B3  Intermediate Hip Hop
54.00 hrs lab
Units: 1.00
Prerequisite: TD-148A2 or TD-148A3
Accepted For Credit: CSU & UC
Students will learn, at an intermediate level, skills of
contemporary street jazz/hip hop dance with emphasis on
body alignment, strength, coordination, rhythmic movement
and creative expression. Repeatable = 3 times (GC)

TD-149  Choreography for Production
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Corequisite: TD-124
Accepted For Credit: CSU & UC
Students will learn methods and elements of choreography
and relate them to technical theatre elements of set, lighting,
costuming, and sound. Repeatable = 1 time (GC)

TD-150  Technical Theatre
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & UC
This course introduces the theory and practice of technical
theatre production. Emphasis is placed on theatre safety,
scenery construction techniques and materials, and backstage
procedures. Students receive hands-on training in the scene
shop and as members of the stage crew of a department
production. Repeatable = 3 times (GR)

TD-152  Introduction to Lighting
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: TD-150
Accepted For Credit: CSU & UC
This course introduces the basic concepts, technology, and
safe practices of electricity and lighting for live events. Lectures
will focus on theory and practice, while lab will provide
opportunities to use equipment in "real life" situations.
Repeatable = 3 times (GC)

TD-153  Scenic Painting
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & UC
This course is a study of various methods of painting theatrical
scenery. Tools to be used will include brushes, rollers, sponges,
and stencils. Students will learn techniques in faux, trompe-
l’oeil, and forced perspective. Students also participate in
current department productions. Repeatable = 3 times (GR)

TD-154  Theatrical Makeup for Stage, TV, and Dance
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Accepted For Credit: CSU & UC
This course includes lecture, demonstration, and laboratory
practice in the design and application of stage and film
makeup, including ethnic, fantasy, horror, period styles, and
special effects. Repeatable = 3 times (GR)

TD-155A  Costume Construction I
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU & UC
This course provides basic costume construction techniques to
develop a student's skill in the use of fabrics, methods, and
simple patterns in a theatrical context. (GC)

TD-155B  Costume Construction II
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: TD-155A
Accepted For Credit: CSU & UC
This course provides costume construction techniques to
advance students' skill in the use of special fabrics, methods,
and more complex patterns. (GC)

TD-156  Theatrical Costuming
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Accepted For Credit: CSU & UC
This course identifies and provides experience using materials,
tools, and techniques used in building costumes. The history
of costumes, use of sewing machines, design, and related
topics are covered. Repeatable = 3 times (GR)
TD-159  Theatre Management  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This course is an introduction to the theories and practices of dance, theatre, and music performance management. Students will study advertising, public relations, box office operations, and event staffing. There is practical lab application of studies in conjunction with concurrent productions (student and professional) and/or outside projects in film and TV. (GR)

TD-160A  Production Lab  
2.00 hrs lab  
Units: 0.50  
Accepted For Credit: CSU & UC  
This lab provides hands-on instruction and practice in technical production for theatre, dance, and television. Repeatable = 3 times (GC)

TD-160A2  Production Lab  
108.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU & UC  
This lab provides hands-on instruction and practice in technical production for theatre, dance, and television. Repeatable = 3 times (GC)

TD-160L  Production Lab  
8.00 hrs lab  
Units: 0.00  
Corequisite: TD-121A, TD-121B, or TD-121C  
This class provides hands-on instruction in technical production for performers. Not applicable to associate degree. Repeatable = 3 times (NG)

TD-161  Stagecraft Lab (Theatre, Television, Dance)  
54.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU & UC  
This course involves participation in all the technical aspects of preparing a scheduled college production (stage, television, and dance), such as set construction, lighting, costuming, makeup, publicity, and house management. Repeatable = 3 times (GR)

TD-162  Stagecraft Lab (Theatre, Television, Dance)  
108.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU & UC  
This course involves participation in all the technical aspects of preparing a scheduled college production (stage, television, and dance), such as set construction, lighting, costuming, makeup, publicity, and house management. Repeatable = 3 times (GR)

TD-163  Stagecraft Lab (Theatre, Television, Dance)  
162.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU & UC  
This course involves participation in all the technical aspects of preparing a scheduled college production (stage, television, and dance), such as set construction, lighting, costuming, makeup, publicity, and house management. Repeatable = 3 times (GR)

TD-164  Stagecraft Lab (Theatre, Television, Dance)  
216.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU & UC  
This course involves participation in all the technical aspects of preparing a scheduled college production (stage, television, and dance), such as set construction, lighting, costuming, makeup, publicity, and house management. Repeatable = 3 times (GR)

TD-170  Survey of Entertainment Design  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
This course explores trends in entertainment design and technology through lectures and fieldtrips. Areas covered will include live performance, film and television, themed entertainment, retail and corporate events. The purpose of this course is to provide students with a broad overview of the field of entertainment design and technology with emphasis on current and future employment opportunities and the skills needed for them. (GC)

TD-171  3D Entertainment Design for Lighting  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: ID-155, TD-152  
Accepted For Credit: CSU  
This course focuses on the fundamentals of computer-aided design as related to lighting design for the entertainment industry. Using Mini-CAD design and drafting programs, this course will guide students through the process of creating lighting designs using three-dimensional models of theatres and other spaces. Repeatable = 1 time (GR)

TD-172  Intermediate Lighting for Stage, Television, and Live Events  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: ID-155 or stage/TV lighting experience  
Accepted For Credit: CSU  
This course offers project-based instruction on the equipment and techniques used in lighting. It will be divided into three sections, each of which will focus on a specific area of the entertainment industry: lighting for the stage, for television production, and for live events. Repeatable = 3 times (GC)

TD-173  Introduction to Moving Lights  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Advisory: TD-172  
Accepted For Credit: CSU  
This course offers an introduction to the technology and applications of intelligent lighting systems for the entertainment industry. The course and lab work will concentrate on the features and functions of a wide variety of lighting fixtures and control systems in use in the entertainment industry today. Repeatable = 3 times (GC)

TD-174  Intermediate Moving Lights  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Prerequisite: TD-173  
Advisory: TD-172  
Accepted For Credit: CSU  
This course builds upon the work done in TD-173. Students will begin designing with, and programming, intelligent lighting systems for different types of events (concerts, corporate parties, trade shows). More sophisticated work will be done in trouble shooting, servicing, and rigging, as well. Repeatable = 3 times (GC)
TD-181  Intermediate Sound for Stage, Television, and Live Events  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: TD-152 or stage/TV sound experience  
Accepted For Credit: CSU  
This course offers project-based instruction on the equipment and techniques used in sound design, recording, and reinforcement. It will be divided into three sections, each of which will focus on a specific area of the entertainment industry: sound for the stage, for television production, and for live events. Repeatable = 3 times (GC)

TD-176  Digital Sound Editing for Stage and TV  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: TD-175, MUS-113  
Accepted For Credit: CSU  
This project-based course provides advanced, hands-on instruction in industry-standard digital sound editing and MIDI systems, including Peak, ProTools, and CueBase. The course is intended for students pursuing careers in audio/technology in the entertainment industry. Repeatable = 2 times (GC)

TD-178  Fundamentals of Rigging  
36.00 hrs lecture, 36.00 hrs lab  
Units: 2.00  
Advisory: TD-150; ability to climb ladders and lift 50 pounds  
This course offers an introduction to the rigging systems and equipment commonly used in the entertainment industry. Through a combination of classroom and lab, students will learn the fundamental concepts of safe rigging including load calculation and placement, safety devices, and fall protection. Students should be in good physical condition and must be able to climb ladders and lift fifty pounds. Repeatable = 1 time (GC)

TD-179  Introduction to Stage Management  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Advisory: ID-155, TD-152  
Accepted For Credit: CSU  
This course introduces the responsibilities, techniques, and tools of a modern stage manager for live broadcast events. Areas covered will include creating schedules, promptbooks, and other paperwork; organizing and managing crew; managing production meetings; managing the rehearsal process; running performances. (GC)

TD-181  Directing for the Camera  
36.00 hrs lecture, 108.00 hrs lab  
Units: 4.00  
Advisory: Eligible for ENGL-151B, TD-114  
Accepted For Credit: CSU  
Using three-camera technique, the students will produce and direct four dramatic scenes for television and one music video. Using single and multi-camera shots, students will produce, direct, and edit one dramatic scene. Repeatable = 2 times (GR)

TD-195A1  Work Experience Education – Vocational  
75.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU  
Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)

Did you know???

34% of Ohlone students are Asian, 25% are Caucasian, 15% are Hispanic, 7% are Filipino, and 4% are African-American.
WEX-185A2  Work Experience Education  
150.00 hrs lab  
Units: 2.00  
Corequisite: WEX-101; Parallel plan (work and attend school at the same time): enrollment in a minimum of seven units, including Work Experience Education; students may qualify for a maximum of 3 WEX units per semester for a total of 6 WEX-185 units. Alternate plan (work and attend school alternately): enrollment limited to one other class during the semester; students must have completed a minimum of seven semester units prior to enrolling in the alternate plan; students may enroll in up to six semester units per semester. 
General limitations: Students may not enroll in WEX-185 and any 195 course concurrently. 
Accepted For Credit: CSU  

WEX-185A3  Work Experience Education  
225.00 hrs lab  
Units: 3.00  
Corequisite: WEX-101; Parallel plan (work and attend school at the same time): enrollment in a minimum of seven units, including Work Experience Education; students may qualify for a maximum of 3 WEX units per semester for a total of 6 WEX-185 units. Alternate plan (work and attend school alternately): enrollment limited to one other class during the semester; students must have completed a minimum of seven semester units prior to enrolling in the alternate plan; students may enroll in up to six semester units per semester. 
General limitations: Students may not enroll in WEX-185 and any 195 course concurrently. 
Accepted For Credit: CSU  

WEX-195A1  Occupational Work Experience Education  
75.00 hrs lab  
Units: 1.00  
Corequisite: Parallel Plan (Work and attend school at the same time): Enrollment in a minimum of seven units, including Work Experience Education; students may qualify for a maximum of 3 WEX units per semester for a total of 6 WEX-185 units. Alternate Plan (Work and attend school alternately): Enrollment limited to one other class during the semester; students must have completed a minimum of seven semester units prior to enrolling in the alternate plan; students may enroll in up to six semester units per semester. 
General limitations: Students may not enroll in WEX-185 and WEX-195 concurrently. 
Accepted For Credit: CSU  

WEX-195A2  Occupational Work Experience Education  
150.00 hrs lab  
Units: 2.00  
Corequisite: Parallel Plan (Work and attend school at the same time): Enrollment in a minimum of seven units, including Work Experience Education; students may qualify for a maximum of four WEX-195 units per semester for a total of 16 WEX units; employment (paid or volunteer) must be in a job related to the students' major or occupational objective. Alternate Plan (Work and attend school alternately) Enrollment limited to one other class during the semester; students must have completed a minimum of seven semester units prior to enrolling in the Alternate Plan; students may enroll in up to eight semester units per semester. 
General Limitations: Students may not enroll in WEX-185 and WEX-195 concurrently. 
Accepted For Credit: CSU  

WEX-195A3  Occupational Work Experience Education  
225.00 hrs lab  
Units: 3.00  
Corequisite: Parallel Plan (Work and attend school at the same time): Enrollment in a minimum of seven units, including Work Experience Education; students may qualify for a maximum of four WEX-195 units per semester for a total of 16 WEX units; employment (paid or volunteer) must be in a job related to the students' major or occupational objective. Alternate Plan (Work and attend school alternately) Enrollment limited to one other class during the semester; students must have completed a minimum of seven semester units prior to enrolling in the Alternate Plan; students may enroll in up to eight semester units per semester. 
General Limitations: Students may not enroll in WEX-185 and WEX-195 concurrently. 
Accepted For Credit: CSU  

WEX-195A4  Occupational Work Experience Education  
300.00 hrs lab  
Units: 4.00  
Accepted For Credit: CSU  

Through a set of learning objectives established by the student, supervisor and instructor, each student will work with and learn from professionals in his/her field of study or occupational objective. These experiences will enable students to improve job skills and analyze career opportunities and requirements. Repeatable = 3 times in series to a maximum of 16 units (GC)