ADMINISTRATION OF JUSTICE
Division: Arts and Social Sciences

AJ-101 Administration of Justice
54.00 hrs lecture
Units: 3.00
Advisory: 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) C-ID AJ 110

AJ-102 Criminal Law
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
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) C-ID AJ 120

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: 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 medicolegal system. Topics include the human skeletal system, forensic anthropology, 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: 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) C-ID SOCI 160

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-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: 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) C-ID AJ 220

AJ-132  Civil Law
36.00 hrs lecture
Units: 2.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU
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
Accepted For Credit: CSU
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-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: Arts and Social Sciences

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)
### Allied Health

**Division:** Health Sciences and Environmental Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AH-110</td>
<td>Medical Terminology</td>
<td>4.00</td>
<td>Accepted For Credit: CSU</td>
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<tr>
<td></td>
<td>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.</td>
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<td>(GR)</td>
</tr>
<tr>
<td>AH-114</td>
<td>Laboratory and Diagnostic Tests</td>
<td>1.00</td>
<td>Repeatable = 1 time (CR)</td>
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<tr>
<td></td>
<td>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.</td>
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</tr>
<tr>
<td>AH-117A</td>
<td>Basic Phlebotomy Training</td>
<td>2.00</td>
<td>Prerequisite: AH-110</td>
</tr>
<tr>
<td></td>
<td>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 (CR)</td>
<td></td>
<td>(GR)</td>
</tr>
<tr>
<td>AH-117B</td>
<td>Phlebotomy Skills Lab</td>
<td>0.50</td>
<td>Prerequisite: AH-117A; must have been taken within one year</td>
</tr>
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<td></td>
<td>This course is the second course of the four course series required for the 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)</td>
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<tr>
<td>AH-117C</td>
<td>Advanced Phlebotomy Training</td>
<td>1.50</td>
<td>Prerequisite: AH-117A and AH-117B; both must have been taken within one year</td>
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<tr>
<td></td>
<td>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)</td>
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<tr>
<td>AH-117D</td>
<td>Phlebotomy Externship</td>
<td>2.00</td>
<td>Prerequisite: AH-117C; must have been taken within one year</td>
</tr>
<tr>
<td></td>
<td>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 techniques as required by California regulations. Not applicable to associate degree. Repeatable = 1 time (GR)</td>
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</tr>
<tr>
<td>AH-118</td>
<td>Advanced Phlebotomy for Practitioners</td>
<td>1.50</td>
<td>Prerequisite: Phlebotomy work experience within the past five years as required by California law</td>
</tr>
<tr>
<td></td>
<td>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 the Department of Health Services. It prepares students to sit for the certification exam and includes advanced techniques in blood collection. Not applicable to associate degree. Repeatable = 1 time (GR)</td>
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<tr>
<td>AH-121</td>
<td>EKG Interpretation</td>
<td>1.00</td>
<td>Students are introduced to waveform identification, measurements, determination of rhythms, determination of heart rates, and various EKG rhythms and dysrhythmia. 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)</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Units</td>
<td>Description</td>
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<tr>
<td>AH-151</td>
<td>Applied Clinical Pharmacology</td>
<td>3.00</td>
<td>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)</td>
</tr>
<tr>
<td>ASL-101A</td>
<td>Principles of American Sign Language I</td>
<td>5.00</td>
<td>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)</td>
</tr>
<tr>
<td>ASL-101A4</td>
<td>Principles of American Sign Language I</td>
<td>5.00</td>
<td>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 an enhanced and expanded Level I study of the fundamentals of American Sign Language grammar and is a further study of the Deaf community and Deaf culture. This course is recommended for students who have completed ASL-101A and is a further study of the Deaf community and Deaf culture. Students are expected to attend outside events at their own expense. (GR)</td>
</tr>
<tr>
<td>ASL-101B</td>
<td>Principles of American Sign Language I</td>
<td>5.00</td>
<td>This course is an enhanced and expanded Level I study of the fundamentals of American Sign Language grammar and is a further study of the Deaf community and Deaf culture. This course is recommended for students who have completed ASL-101A and desire to further study and review before taking ASL-102A. Students are expected to attend outside events at their own expense. (GR)</td>
</tr>
<tr>
<td>ASL-101B4</td>
<td>Principles of American Sign Language I</td>
<td>5.00</td>
<td>This course is an enhanced and expanded Level I study of the fundamentals of American Sign Language grammar and is a further study of the Deaf community and Deaf culture. This course is recommended for students who have completed ASL-101A and desire to further study and review before taking ASL-102A. Students are expected to attend outside events at their own expense. (GR)</td>
</tr>
<tr>
<td>ASL-102A</td>
<td>Principles of American Sign Language II</td>
<td>5.00</td>
<td>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 and Deaf Studies and students wishing to enter the Interpreter Preparation Program. Students are expected to attend outside events at their own expense. (GR)</td>
</tr>
<tr>
<td>ASL-102A4</td>
<td>Principles of American Sign Language II</td>
<td>5.00</td>
<td>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 an enhanced and expanded Level II study of the fundamentals 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-102A and desire further study and review. Students are expected to attend outside events at their own expense. (GR)</td>
</tr>
<tr>
<td>ASL-102B</td>
<td>Principles of American Sign Language II</td>
<td>5.00</td>
<td>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 an enhanced and expanded Level II study of the fundamentals 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-102A and desire further study and review. Students are expected to attend outside events at their own expense. (GR)</td>
</tr>
<tr>
<td>ASL-103A</td>
<td>Principles of American Sign Language III</td>
<td>5.00</td>
<td>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)</td>
</tr>
<tr>
<td>ASL-103A4</td>
<td>Principles of American Sign Language III</td>
<td>5.00</td>
<td>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)</td>
</tr>
</tbody>
</table>
ASL-103B  Principles of American Sign Language III  
9.00 hrs lecture, 18.00 hrs lab  
Units: 5.00  
Prerequisite: ASL-103A  
Accepted For Credit: CSU & UC  
This course is an expanded and enhanced Level III 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 and who desire further study and review before taking ASL-104A. Students are expected to attend outside events at their own expense. (GR)

ASL-104A  Principles of American Sign Language IV  
9.00 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 majoring in American Sign Language and Deaf Studies and students wishing to enter the Interpreter Preparation Program. The course is for students who have completed ASL-103A or ASL-103B. Students are expected to attend outside events at their own expense. (GR)

ASL-104B  Principles of American Sign Language IV  
9.00 hrs lecture, 18.00 hrs lab  
Units: 5.00  
Prerequisite: ASL-104A  
Accepted For Credit: CSU & UC  
This course is an enhanced and expanded 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 finished ASL-104A and desire further study and review. 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-102A or ASL-102B  
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 majoring in American Sign Language and Deaf Studies Program or in the Interpreter Preparation programs. (GR)

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-101A or ASL-101B
This course offers direct experience signing in formal and/or informal conversational settings or projects involving knowledge of ASL and Deaf culture. Repeatable = 3 times (CR)

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 the core 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 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-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 the 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 American Sign Language (ASL), Deaf Education, 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)

ANTHROPOLOGY
Division: Science, Engineering, and Mathematics

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)

2012-2013 OHLONE COLLEGE CATALOG
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)

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-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. The course is taught by three instructors, one from each discipline. (GR)

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) C-ID ARTH 110

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) C-ID ARTH 120

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) C-ID ARTS 100

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, advanced lamination, and torchwork. Repeatable = 3 times (GC)

ART-105C  Three-Dimensional Glass  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Prerequisite: ART-105B  
Accepted For Credit: CSU  
This course emphasizes 3-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) C-ID ARTS 110

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 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 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-109A  
Prerequisite: ART-109A 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 ART-110A  
Accepted For Credit: CSU  
This course gives advanced attention to design solution and presentation. The course 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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Units</th>
<th>Prerequisite</th>
<th>Acceptance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-116C</td>
<td>Sculpture and Beyond</td>
<td>36.00 hrs lecture, 72.00 hrs lab</td>
<td>3.00</td>
<td>ART-116B</td>
<td>Accepted</td>
<td>This course is a continuation of ART-116B and will further explore the relationship between sculptural form and personal expression. Studio practice in advanced processes and investigation of the local art scene will be emphasized. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>ART-119A</td>
<td>3D Studio Lab</td>
<td>54.00 hrs lab</td>
<td>1.00</td>
<td></td>
<td>Corequisite</td>
<td>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)</td>
</tr>
<tr>
<td>ART-120A</td>
<td>Ceramic Studio Development and Maintenance I</td>
<td>54.00 hrs lab</td>
<td>1.00</td>
<td>ART-121B</td>
<td>Accepted</td>
<td>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)</td>
</tr>
<tr>
<td>ART-120B</td>
<td>Ceramic Studio Development and Maintenance II</td>
<td>54.00 hrs lab</td>
<td>1.00</td>
<td>ART-121B</td>
<td>Accepted</td>
<td>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)</td>
</tr>
<tr>
<td>ART-121A</td>
<td>Introductory Ceramics I</td>
<td>36.00 hrs lecture, 72.00 hrs lab</td>
<td>3.00</td>
<td></td>
<td>Accepted</td>
<td>This course is an introduction to the fundamental techniques of wheel-thrown and hand-constructed 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 clays, including Raku and burnishing. Repeatable = 3 times (GC)</td>
</tr>
<tr>
<td>ART-121B</td>
<td>Introductory Ceramics II</td>
<td>36.00 hrs lecture, 72.00 hrs lab</td>
<td>3.00</td>
<td>ART-121A</td>
<td>Accepted</td>
<td>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)</td>
</tr>
<tr>
<td>ART-122A</td>
<td>Ceramic Throwing I</td>
<td>36.00 hrs lecture, 72.00 hrs lab</td>
<td>3.00</td>
<td>ART-121B</td>
<td>Accepted</td>
<td>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)</td>
</tr>
<tr>
<td>ART-122B</td>
<td>Ceramic Throwing II</td>
<td>36.00 hrs lecture, 72.00 hrs lab</td>
<td>3.00</td>
<td>ART-121B</td>
<td>Accepted</td>
<td>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)</td>
</tr>
<tr>
<td>ART-123</td>
<td>Ceramic Decorating</td>
<td>36.00 hrs lecture, 72.00 hrs lab</td>
<td>3.00</td>
<td>ART-121B</td>
<td>Accepted</td>
<td>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)</td>
</tr>
<tr>
<td>ART-124</td>
<td>Advanced Ceramic Decorating</td>
<td>36.00 hrs lecture, 72.00 hrs lab</td>
<td>3.00</td>
<td>ART-121B</td>
<td>Accepted</td>
<td>The emphasis is on designing and forming completed ceramic works for the market. This course includes large outdoor ceramic shapes such as tiles and murals and non-functional ceramic sculpture. Repeatable = 3 times (GC)</td>
</tr>
</tbody>
</table>
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
27.00 hrs lecture, 81.00 hrs lab
Units: 3.00
Cross-referenced Course: CA-138A
Accepted For Credit: CSU
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
27.00 hrs lecture, 81.00 hrs lab
Units: 3.00
Cross-referenced Course: GA-138B
Prerequisite: ART-138A or 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: CA-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 online galleries and museums; consider current issues around 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. Students should consider completing ART-138A prior to enrolling in this course, but it is not a requirement. Repeatable = 3 times (GC)

Did you know???
The California Community College system enrolls almost one-fourth of all 20 to 24-year olds in California, with participation rates of 236 per 1,000 for 2010-2011. Source: Accountability Reporting for Community Colleges
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
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<tr>
<td>ART-146</td>
<td>Photography/Graphic Arts Newspaper Staff</td>
<td>1.00</td>
<td>9.00</td>
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<td>ART-147</td>
<td>Photography/Graphic Arts Newspaper Staff</td>
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<td>ART-148</td>
<td>Photography/Graphic Arts Newspaper Staff</td>
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<td>ART-150A</td>
<td>Interior Design Concepts</td>
<td>2.00</td>
<td>18.00</td>
<td>54.00</td>
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<tr>
<td>ART-150B</td>
<td>Interior Design</td>
<td>3.00</td>
<td>36.00</td>
<td>72.00</td>
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<tr>
<td>ART-151</td>
<td>Visualization and Presentation</td>
<td>3.00</td>
<td>36.00</td>
<td>72.00</td>
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<tr>
<td>ART-153</td>
<td>History of Decorative Arts</td>
<td>3.00</td>
<td>54.00</td>
<td>72.00</td>
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<td>ART-154</td>
<td>Contemporary Home Design</td>
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<td>ART-155A</td>
<td>Architectural Drafting for Interior Design</td>
<td>3.00</td>
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<td>72.00</td>
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<tr>
<td>ART-155B</td>
<td>CAD for Interior Design</td>
<td>3.00</td>
<td>36.00</td>
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<tr>
<td>ART-156</td>
<td>Architectural Modelmaking for Interior Design</td>
<td>3.00</td>
<td>36.00</td>
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<td>ART-157</td>
<td>Professional Practice for Interior Design</td>
<td>3.00</td>
<td>54.00</td>
<td>72.00</td>
</tr>
</tbody>
</table>

**ART-146 Photography/Graphic Arts Newspaper Staff**
- Cross-referenced Course: JOUR-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. ART-146 students are expected to produce one photo/graphic per issue. Repeatable = to a maximum of 9 units (GC)

**ART-147 Photography/Graphic Arts Newspaper Staff**
- Cross-referenced Course: JOUR-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 campus 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. ART-147 students are expected to produce two photos or graphics per issue. Repeatable = to a maximum of 9 units (GC)

**ART-148 Photography/Graphic Arts Newspaper Staff**
- Cross-referenced Course: JOUR-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. ART-148 students are expected to produce three photos or graphics per issue. This course is usually reserved for managers and editors. Repeatable = to a maximum of 9 units (GC)

**ART-150A Interior Design Concepts**
- 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**
- 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**
- 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**
- 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**
- 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**
- Cross-referenced Course: ID-155A
- 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**
- Cross-referenced Course: ID-155B
- 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**
- 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**
- 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)
ART-158  Textiles
36.00 hrs lecture, 72.00 hrs lab
Units: 3.00
Cross-referenced Course: ID-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 though hands-on projects in the laboratory component. Repeatable = 3 times (GC)

ART-159A  Applied Design: Residential Lighting
18.00 hrs lecture
Units: 1.00
Cross-referenced Course: ID-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)

ART-159B  Applied Design: Color for the Home
18.00 hrs lecture
Units: 1.00
Cross-referenced Course: ID-159B
Accepted For Credit: CSU
This seminar will explore various approaches that may be followed to arrive at color schemes that are satisfying, comfortable, and exciting. (GC)

ART-160A  Computer Graphics I
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: BA-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)

ART-160B  Computer Graphics II
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: BA-160B, GA-160B, CS-160B
Prerequisite: GA-160A, ART-160A, BA-160A, or CS-160A
Accepted For Credit: CSU
This course is a continuation of ART-160A. The emphasis in this course is on developing intermediate and advanced skills needed to set up and operate a computer 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)

ART-161A  Digital Graphics I
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Cross-referenced Course: GA-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)

ART-161B  Digital Graphics II
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Cross-referenced Course: GA-161B, CAOT-161B
Prerequisite: GA-161A, ART-161A, or CAOT-161A
Accepted For Credit: CSU
This course is a continuation of ART-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)

ART-163  Digital Arts Lab – Macintosh
27.00 hrs lab
Units: 0.50
Cross-referenced Course: GA-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)

ASTRONOMY
Division: Science, Engineering, and Mathematics

ASTR-101A  General Astronomy of the Solar System
54.00 hrs lecture
Units: 3.00
Advisory: MATH-151 and ASTR-102
Accepted For Credit: CSU & UC
This course provides the student with an introduction to the history, principles, methods, and fundamentals of astronomy. (GR)

ASTR-101B  General Astronomy Beyond the Solar System
54.00 hrs lecture
Units: 3.00
Advisory: ASTR-102
Accepted For Credit: CSU & UC
This course is an introduction to the fundamental principles and the dynamics of the astronomy beyond the Solar System. (GR)
**ASTR-102  General Astronomy Lab**  
54.00 hrs lab  
Units: 1.00  
Corequisite: ASTR-101A or ASTR-101B  
Advisory: MATH-151  
Accepted For Credit: CSU & UC  
This is an introductory lab course covering the methods and fundamentals of astronomy through inquiry and experiments. (GR)

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**ATHLETICS**  
Division: Exercise Science and Athletics

**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 (GC)

**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-112A2  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  
Advisory: Medical clearance within the last year  
Accepted For Credit: CSU & UC  
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  
Advisory: Medical clearance within the last year  
Accepted For Credit: CSU & UC  
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)

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**Did you know?**  
During 2011-2012 Ohlone’s athletic teams won two Coast Conference Championships in Women’s Basketball and Men’s Baseball (both for the third year in a row!) and six teams competed in the post season championships (Women’s Soccer, Women’s Basketball, Men’s Basketball, Softball, Baseball, Women’s Swimming).
ATHL-220A2 Progressive Weight Training
36.00 hrs lab
Units: 0.50
Advisory: Medical clearance within the last year
Accepted For Credit: CSU & UC
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-222 Intercollegiate Volleyball, Women
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate women’s volleyball. Students will refine volleyball specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)

ATHL-223 Intercollegiate Soccer, Men
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate men’s soccer. Students will refine sports specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)

ATHL-224 Intercollegiate Waterpolo, Women
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate women’s water polo. Students will refine sports specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)

ATHL-225 Intercollegiate Waterpolo, Men
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate men’s water polo. Students will refine sports specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)

ATHL-226 Intercollegiate Basketball, Women
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate women’s basketball. Students will refine sports specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)

ATHL-227 Intercollegiate Basketball, Men
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate men’s basketball. Students will refine sports specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)

ATHL-228 Intercollegiate Swimming, Women
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate women’s swimming. Students will refine sports specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)

ATHL-229 Intercollegiate Swimming, Men
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate men’s swimming. Students will refine sports specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)

ATHL-230 Intercollegiate Softball, Women
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate women’s softball. Students will refine sports specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)
ATHL-231  Intercollegiate Baseball, Men
180.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
Accepted For Credit: CSU & UC
This course is designed for student-athletes to participate in intercollegiate men’s baseball. Students will refine sports specific skills, improve their strength and conditioning, and develop team concepts. There will be a focus on the mental game and how it relates to personal and team success. Repeatable = 2 times (GC)

ATHL-262  Coaching Volleyball
18.00 hrs lecture, 108.00 hrs lab
Units: 3.00
Prerequisite: Medical clearance within the last year
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
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
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
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
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)
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: ENVS-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-110  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-114  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-130  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, 54.00 hrs lab
Units: 4.00
Cross-referenced Course: ENVS-142
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
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: ENVS-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, Engineering, and Mathematics

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
4.50 hrs lecture, 13.50 hrs lab
Units: 3.00
Prerequisite: BIOT-105
Accepted For Credit: CSU & UC
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
A course about chemical and lab safety in the workplace with emphasis on hazardous materials and chemical safety; Material Safety Data 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 also be taught. (GR)

LAB Biotech Summer Bridge
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Prerequisite: This course is open only to Learning Alliance for Bioscience program participants from partner high schools. Students must have successfully completed an articulated LAB biotechnology or biochemistry course prior to participating in this Bridge course.
The Learning Alliance for Bioscience (LAB) Biotech Summer Bridge course provides hands-on experience in the biotechnology laboratory for students who have participated in LAB classes at their high school. Students will perform experiments that involve such techniques as bacterial cell culture, DNA extraction and analysis, PCR, gene cloning, and protein extraction and purification. The theme of the course changes each summer, with the focus on such topics as cell culture, drug discovery, biofuels, environmental biotechnology, etc. Repeatable = 3 times (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—supplemented 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)

2012-2013 OHLONE COLLEGE CATALOG
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 micropipettors, 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 notetaking, 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 micropipettors, 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-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)
BIOT-111B  PCR Primer Design and Optimization and Reverse Transcription
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: BIOT-110A2
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 is an introduction to computational biology and focuses on the computer analysis of biological sequences and structures. The course includes molecular biology databases, database searching, statistical techniques, genome annotation methods, phylogenetic analysis, protein and structure prediction and microarray technology. Repeatable = 2 times (GR)

BIOT-113  GMP/GLP
18.00 hrs lecture
Units: 1.00
Accepted For Credit: CSU
This course gives an introduction to 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 & 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)

BIOT-115A  Mammalian Cell Culture Techniques
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: BIOT-105 or 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 covers the basics of immunology and the immunological technology relevant to biotechnology. Topics covered include cell culture and protein chemistry relating to immunology, the lymphatic system, cellular immunity, cell typing, humoral immunity and immunoglobulins, making antibodies, ELISA and EIA, affinity chromatography, clinical immunology and autoimmune diseases. (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 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-120A  Introduction to SEM Technology
9.00 hrs lecture
Units: 0.50
Advisory: BIOL-130
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-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, operation, and applications of Scanning Electron Microscopy in biological sciences including techniques for biological specimen preparation. Repeatable = 2 times (GR)

BIOT-120C  SEM – Applications in Physical Science and Engineering
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. The course will demonstrate the use of microscopic imaging and compositional detectors for problem solving in material sciences, forensics and environmental sciences. Repeatable = 2 times (GR)
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Prerequisite/Advisory</th>
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<tbody>
<tr>
<td>BIOT-121</td>
<td>Biotechnology Careers</td>
<td>1.00</td>
<td>18.00</td>
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<td>Accepted For Credit: CSU; Advisory: Eligible for ENGL-101A and MATH-151</td>
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<tr>
<td>BIOT-122</td>
<td>Introduction to Nanotechnology</td>
<td>3.00</td>
<td>54.00</td>
<td>27.00</td>
<td>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)</td>
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<tr>
<td>BIOT-123</td>
<td>Writing SOPs</td>
<td>0.50</td>
<td>9.00</td>
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<td>Accepted For Credit: CSU; Prerequisite: BIOT-105 or BIOL-101A</td>
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<tr>
<td>BIOT-131</td>
<td>Computing Concepts in Biotechnology</td>
<td>4.00</td>
<td>54.00</td>
<td>54.00</td>
<td>Accepted For Credit: CSU; Cross-referenced Course: CS-131</td>
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<tr>
<td>BIOT-131D</td>
<td>Review of Biotechnology Concepts</td>
<td>1.00</td>
<td>18.00</td>
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<td>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)</td>
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<td>BIOT-131L</td>
<td>LAB Learning Community</td>
<td>1.00</td>
<td>18.00</td>
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<td>Accepted For Credit: CSU; Advisory: Student has taken LAB biotechnology or biochemistry class in high school</td>
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<tr>
<td>BIOT-132</td>
<td>LAB Learning Community, Mentoring Level</td>
<td>1.00</td>
<td>18.00</td>
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<td>Accepted For Credit: CSU; This course is the second level of a learning community designed to support the educational goals of students studying biotechnology or other STEM fields, especially those students who have participated in Learning Alliance for Bioscience biotechnology and/or biochemistry courses (or equivalent) in high school. Students who have completed three semesters of the BIOT-131L Learning Community course are eligible to take this mentor-level class. Each semester the course will cover new content and concepts according to student interests and needs, and new developments in the field of biotechnology. Repeatable = 3 times (CR)</td>
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<td>BIOT-133</td>
<td>Introduction to SAS Programming</td>
<td>3.00</td>
<td>54.00</td>
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<td>Cross-referenced Course: CS-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)</td>
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<tr>
<td>BIOT-133A</td>
<td>Data Analysis Using SAS</td>
<td>3.00</td>
<td>54.00</td>
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<td>Cross-referenced Course: CS-133A; 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)</td>
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<tr>
<td>BIOT-141B</td>
<td>SAS Graphing and ODS</td>
<td>2.00</td>
<td>27.00</td>
<td>27.00</td>
<td>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)</td>
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<tr>
<td>BIOT-143</td>
<td>Advanced SAS Programming</td>
<td>3.00</td>
<td>54.00</td>
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<td>Cross-referenced Course: CS-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)</td>
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**BROADCASTING**
Division: Arts and Social Sciences

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Notes</th>
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<tbody>
<tr>
<td>BRDC-110</td>
<td>Digital Video for Web and DVD</td>
<td>54.00</td>
<td>4.00</td>
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<td>Cross-referenced Course: MM-110</td>
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<td>Advisory: MM-102A</td>
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<td>BRDC-120</td>
<td>Introduction to Electronic Media</td>
<td>36.00</td>
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<td>BRDC-123A</td>
<td>Radio Operations I</td>
<td>18.00</td>
<td>3.00</td>
<td>BRDC-123B</td>
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<td>Cross-referenced Course: MM-110</td>
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<td>Advisory: MM-102A</td>
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<tr>
<td>BRDC-123B</td>
<td>Radio Operations II</td>
<td>18.00</td>
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<td>BRDC-123A</td>
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<td>BRDC-127A</td>
<td>Radio Broadcast Lab</td>
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<td>BRDC-123B</td>
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<td>Cross-referenced Course: MM-110</td>
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<tr>
<td>BRDC-127B</td>
<td>Radio Broadcast Lab</td>
<td>54.00</td>
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<td>BRDC-123B</td>
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<td>BRDC-124</td>
<td>Broadcast Internships</td>
<td>180.00</td>
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<td>BRDC-129</td>
<td>Digital Radio Studio Systems</td>
<td>18.00</td>
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<td>BRDC-130</td>
<td>Broadcast Announcing</td>
<td>36.00</td>
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<tr>
<td>BRDC-132</td>
<td>Studio Recording</td>
<td>54.00</td>
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</table>

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 -134  Final Cut Pro Editing  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
Students learn the basics of editing a television package in the digital medium. Students will be trained in the use of Final Cut Pro non-linear editing system under the guidance of broadcast industry professionals. The course examines how cutting edge non-linear editing technology has its roots in film editing, explores similarities between the two, and contrasts both to video editing. The course covers the history of video storage media from 2" AMPEX tape through BETAs, current formats including DV and HD. Students also develop storytelling skills. Repeatable = 1 time (GR)

BRDC -135  Final Cut Pro Suite-Master  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
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)

BRDC -136  Digital Video and Lighting  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
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)

BRDC -137  Video Field Production  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Prerequisite: BRDC-136  
Accepted For Credit: CSU  
Students learn advanced techniques of shooting video for commercial television news. Repeatable = 1 time (GR)

BRDC -138  AVID Editing  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
Students learn the basics of editing a television story using AVID non-linear editing system. Students also develop storytelling skills. Repeatable = 1 time (GC)

BRDC -141  Live TV Newscast  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
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)

BRDC -142  Live TV Studio Production  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
Students write, report, shoot, and edit feature stories and human-interest stories for broadcast on the college’s newscast, which are then broadcast live on local cable and the Internet. Repeatable = 1 time (GC)

BRDC -144  Sports Broadcasting  
36.00 hrs lecture, 72.00 hrs lab  
Units: 3.00  
Advisory: BRDC-136, BRDC-138, BRDC-141, BRDC-142, BRDC-148, or BRDC-152  
Accepted For Credit: CSU  
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)

BRDC -148  Directing Live Television  
36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Prerequisite: BRDC-141 or BRDC-142  
Accepted For Credit: CSU  
Students learn to run studio cameras, teleprompter, switcher, audio board, and direct a live broadcast. Students participate in a live weekly newscast. Repeatable = 2 times (GC)

BRDC -152  Film and Video Production  
54.00 hrs lecture, 72.00 hrs lab  
Units: 4.00  
Advisory: BRDC-134, BRDC-135, BRDC-138, BRDC-144  
Accepted For Credit: CSU  
Advanced film and video production techniques, with emphasis on lighting and short film production. Repeatable = 3 times (GC)

BRDC -155  Mass Media and Society  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
Cross-referenced Course: JOUR-155  
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)

BUSINESS ADMINISTRATION  
Division: Arts and Social Sciences

BA-101  Financial Accounting  
90.00 hrs lecture  
Units: 5.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU & UC  
This course introduces accounting theory, procedures, and practices relating to financial accounting. (GR)

BA-101  Managerial Accounting  
90.00 hrs lecture  
Units: 5.00  
Prerequisite: BA-101A  
Accepted For Credit: CSU & UC  
This course is an introduction to managerial accounting including the analysis and interpretation of accounting data to aid management. (GR)
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Units</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
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<tr>
<td>BA-102A</td>
<td>Principles of Economics-Macroeconomics</td>
<td>54.00</td>
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<td>Practice/Economics-Macroeconomics</td>
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<td></td>
<td>Introduction to Macroeconomics</td>
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<td>The topics explored include supply and demand</td>
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<td>government spending, taxation, business cycles</td>
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<td>fiscal policy, monetary policy, money and</td>
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<td>banking system, inflation, unemployment, national</td>
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<td>income, and international economics. (GR)</td>
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<tr>
<td>BA-102B</td>
<td>Principles of Economics-Microeconomics</td>
<td>54.00</td>
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<td>Practice/Economics-Microeconomics</td>
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<td></td>
<td>Introduction to Microeconomics</td>
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<td>The topics explored include demand, supply,</td>
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<td>market structure, pricing policies, labor market</td>
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<td>elasticity and its application, public goods</td>
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<td>and common resources, and environmental policy.</td>
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<td>BA-104</td>
<td>Computer Applications in Accounting</td>
<td>36.00</td>
<td>3.00</td>
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<td>Practice/Computer Applications in Accounting</td>
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<td>This course covers the application of accounting</td>
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<td>theory on the computer using spreadsheet software.</td>
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<tr>
<td>BA-105</td>
<td>Income Tax Principles</td>
<td>72.00</td>
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<td>Practice/Income Tax Principles</td>
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<td>This course provides an analysis of the principles</td>
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<td>procedures, and terminology of income taxes on</td>
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<td>individual taxpayers. (GC)</td>
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<tr>
<td>BA-109B</td>
<td>Computerized Accounting for Small Business</td>
<td>22.50</td>
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<td>Practice/Computerized Accounting for Small Business</td>
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<td>This course is designed to meet the accounting</td>
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<td>needs of a small business. A widely-used software</td>
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<td>package (such as QuickBooks) will be presented.</td>
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<td>BA-115</td>
<td>Career Communication</td>
<td>54.00</td>
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<td>Practice/Career Communication</td>
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<td>grammar, punctuation, and sentence structure from</td>
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<td>a business approach. Writing skills for clear</td>
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<td>and effective business communication are</td>
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<td>developed through letters and reports. (GC)</td>
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<td>BA-123</td>
<td>Introduction to Business</td>
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<td>Practice/Introduction to Business</td>
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<td>This course is designed for students interested</td>
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<td>in establishing a business and needing</td>
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<td>information about the legal issues involved.</td>
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<td>The information is very practical and is</td>
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<td>presented in a clear, concise manner. Legal</td>
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<td>aspects such as forms of ownership, licensing,</td>
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<td>and taxes will be covered. (GC)</td>
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<tr>
<td>BA-125</td>
<td>Introduction to International Business</td>
<td>54.00</td>
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<td>Practice/Introduction to International Business</td>
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<td>This course examines the purposes, organization,</td>
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<td>and major activities of business operations.</td>
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<td>Emphasis is placed on understanding relationships</td>
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<td>of business, government, and the consumer in a</td>
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<td>global economy. This is a survey course designed</td>
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<td>to give students a brief outline of most of the</td>
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<td>major activities in business. (GC)</td>
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<td>BA-126</td>
<td>Introduction to Marketing</td>
<td>54.00</td>
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<td>Practice/Introduction to Marketing</td>
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<td>This course explores all fundamental aspects of</td>
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<td>marketing and the role marketing plays in the</td>
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<td>overall context of business. How markets develop,</td>
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<td>market segmentation and target marketing, the</td>
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<td>4Ps of marketing (product, price, promotion,</td>
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<td>placement), and marketing theory and practice are</td>
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<td>examined in detail. (GC)</td>
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<td>BA-136</td>
<td>Introduction to International Business</td>
<td>54.00</td>
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<td>Practice/Introduction to International Business</td>
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<td>This course presents the latest theories and</td>
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<td>concepts of international business while</td>
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<td>highlighting the leading role culture plays in</td>
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<td>global commerce. (GC)</td>
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<tr>
<td>BA-137</td>
<td>Introduction to International Marketing</td>
<td>54.00</td>
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<td></td>
<td>Practice/Introduction to International Marketing</td>
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<td>Survey course that covers the essential elements</td>
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<td>of international marketing, beginning with its</td>
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<td>definition and concluding with international</td>
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<td>marketing strategy implementation. (GC)</td>
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<td>Course Code</td>
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<tr>
<td>BA-138A</td>
<td>Services Export Marketing</td>
<td>3.00</td>
<td>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)</td>
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<tr>
<td>BA-139</td>
<td>Psychology in the Workplace</td>
<td>3.00</td>
<td>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)</td>
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<tr>
<td>BA-140</td>
<td>Global Business Immersion</td>
<td>2.00</td>
<td>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. Repeatable = 2 times (GC)</td>
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<tr>
<td>BA-141A</td>
<td>Business Law</td>
<td>3.00</td>
<td>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)</td>
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<tr>
<td>BA-141C</td>
<td>An Introduction to International Law</td>
<td>3.00</td>
<td>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)</td>
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<tr>
<td>BA-142</td>
<td>International Economics</td>
<td>3.00</td>
<td>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)</td>
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<td>BA-143</td>
<td>Sports Marketing</td>
<td>3.00</td>
<td>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)</td>
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<tr>
<td>BA-144</td>
<td>Sports Management</td>
<td>3.00</td>
<td>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)</td>
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<td>BA-160A</td>
<td>Computer Graphics I</td>
<td>4.00</td>
<td>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)</td>
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<tr>
<td>BA-160B</td>
<td>Computer Graphics II</td>
<td>4.00</td>
<td>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 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 = 1 time (GC)</td>
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<tr>
<td>BA-192</td>
<td>Service Learning Internship</td>
<td>1.00</td>
<td>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)</td>
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<td>BA-195A1</td>
<td>Work Experience Education – Vocational</td>
<td>1.00</td>
<td>Work experience education for students employed in jobs directly related to a major. Units received are based on hours worked. (GC)</td>
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**BUSINESS SUPERVISION MANAGEMENT**

Division: Business, Technology, and Learning Resources

**BSM-101**  
Fundamentals of Supervision  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This course provides an overview of supervisory principles and practices from defining the supervisor’s role to the challenges of ensuring effective employee communications. Topics also include staffing, professional development, workplace safety, and conflict resolution. (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 communication, employee-employer relations, cultural awareness, conflict resolution, stress management, 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 the principles and practices of human resources for first line and above managerial personnel: employment/industrial relations, equal employment opportunity, sexual harassment, training and development, wage/salary/benefit administration, job performance reviews, and safety/accident prevention. (GR)

**BSM-105**  
Operations Management  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This course covers the principles of operations management: globalization, forecasting, materials/production/project management, and 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 for the techniques of communication in the workplace including active listening, intercultural communication, verbal and non-verbal communication, conducting meetings, and effective 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 provides an overview of principles of leadership, supervision, power and politics in the workplace; team decision-making/problem solving; motivating employees; coaching; 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 a job 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)

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**Did you know???

34% of Ohlone students are Asian, 25% are Caucasian, 18% are Hispanic, 8% are Filipino, and 5% are African-American.
CHEMICAL TECHNOLOGY

Division: Science, Engineering, and Mathematics

CHMT-102 Chemical Safety and Hygiene
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Cross-referenced Course: BIOT-102
A course about chemical and lab safety in the workplace with emphasis on hazardous materials and chemical safety; Material Safety Data 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 also be taught. (GR)

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-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—supplemented 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, Beer’s-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)
CHEMISTRY
Division: Science, Engineering, and Mathematics

CHEM-101A General Chemistry
54.00 hrs lecture, 108.00 hrs lab
Units: 5.00
Prerequisite: CHEM-102 and MATH-152, or satisfactory performance on the Chemistry Placement Test at Ohlone College
Advisory: CAOT-150
Accepted For Credit: CSU & UC
CHEM-101A is a general college-level inorganic chemistry course designed for students majoring in biology, chemistry, engineering, pre-med, and other fields demanding rigorous scientific preparation. Topics covered include atomic theory, stoichiometry, chemical reactions, introductory thermochemistry, theories of bonding, and the properties of solids, liquids, gases, and solutions. (GR) C-ID CHEM 110

CHEM-101B General Chemistry
54.00 hrs lecture, 108.00 hrs lab
Units: 5.00
Prerequisite: CHEM-101A
Accepted For Credit: CSU & UC
Chemistry 101B continues the study of chemistry taught in Chemistry 101A. Theory and mathematical applications are emphasized. This course is designed for science-oriented majors including biology, chemistry, engineering, and pre-professional health. Topics include kinetics, equilibrium, acids and bases, solubility, thermodynamics, electrochemistry, nuclear chemistry, properties of organic molecules, acids and bases, buffers, proteins, and compounds containing transition elements, organic chemistry, and coordination compounds. This course provides students with the necessary foundation for Organic Chemistry, CHEM-112A. (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-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. Repeatability = 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: Arts and Social Sciences**

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Credit Acceptance</th>
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<tbody>
<tr>
<td>CHS-101</td>
<td>Chicano Culture I</td>
<td>5.00</td>
<td>CSU &amp; UC</td>
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<td>Cross-referenced Course: SOC-106</td>
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<td>Advisory: Eligible for ENGL-101A</td>
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<td>Accepted For Credit: CSU &amp; UC</td>
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This course examines the social, cultural, political, and economic heritage of the Chicanos and their contribution to American society. (GR)

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<tbody>
<tr>
<td>CHS-102A</td>
<td>Chicana/o History I</td>
<td>3.00</td>
<td>CSU</td>
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<td>Cross-referenced Course: HIST-102A</td>
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<td>Advisory: ENGL-101A</td>
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<td>Accepted For Credit: CSU</td>
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Covers the history of Chicanas and Chicanos from Pre-Columbian times to 1850. Emphasizes the political, economic, and social influences of Pre-Columbian America, Spain, Mexico, and the United States. Includes a study of the United States Constitution. (GR)

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<th>Course Code</th>
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<tr>
<td>CHS-102B</td>
<td>Chicana/o History II</td>
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<td>CSU</td>
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<td>Cross-referenced Course: HIST-102B</td>
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<td>Advisory: ENGL-101A</td>
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<td>Accepted For Credit: CSU</td>
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Covers the history of the Mexican-American experience from 1850 to the present day. Emphasizes the political, economic, and social experiences of the Mexican American people under the influences of Mexico and the United States. Includes a study of the Constitution of California. (GR)

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<th>Course Code</th>
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<tbody>
<tr>
<td>CHS-106A</td>
<td>Chicano Literature</td>
<td>3.00</td>
<td>CSU &amp; UC</td>
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<td>Accepted For Credit: CSU &amp; UC</td>
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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)

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<th>Course Name</th>
<th>Units</th>
<th>Credit Acceptance</th>
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<tbody>
<tr>
<td>CHS-109</td>
<td>Barrio Fieldwork</td>
<td>2.00</td>
<td>CSU</td>
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<tr>
<td></td>
<td>Accepted For Credit: CSU</td>
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Observation of selected barrios, institutions, agencies. (GR)

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<tr>
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</thead>
<tbody>
<tr>
<td>CHS-112</td>
<td>Contemporary Issues of Chicanas</td>
<td>3.00</td>
<td>CSU &amp; UC</td>
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<tr>
<td></td>
<td>Prerequisite: ENGL-163, eligible for ENGL-101A</td>
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<td>Accepted For Credit: CSU &amp; UC</td>
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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: Language and Communication**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Credit Acceptance</th>
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</thead>
<tbody>
<tr>
<td>CHIN-101A</td>
<td>Elementary Mandarin Chinese I</td>
<td>5.00</td>
<td>CSU &amp; UC</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: CHIN-101A or two years of high school Chinese</td>
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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)

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<thead>
<tr>
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<th>Units</th>
<th>Credit Acceptance</th>
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<tbody>
<tr>
<td>CHIN-102A</td>
<td>Intermediate Mandarin Chinese I</td>
<td>5.00</td>
<td>CSU &amp; UC</td>
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<tr>
<td></td>
<td>Prerequisite: CHIN-101B or three years of high school Chinese</td>
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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)

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<thead>
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<th>Units</th>
<th>Credit Acceptance</th>
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</thead>
<tbody>
<tr>
<td>CHIN-102B</td>
<td>Intermediate Mandarin Chinese II</td>
<td>5.00</td>
<td>CSU &amp; UC</td>
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<td></td>
<td>Prerequisite: CHIN-102A</td>
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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)

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<th>Credit Acceptance</th>
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<tbody>
<tr>
<td>CHIN-121B</td>
<td>Mandarin Chinese Conversation II</td>
<td>3.00</td>
<td>CSU</td>
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<td></td>
<td>Prerequisite: CHIN-121A</td>
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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: Language and Communication

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-101 Computer Mediated Communication
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU
Explores various human relationships using computer mediated communication (CMC) such as Twitter, Facebook, email, blogs, online games, and business networking sites. This is a survey, social science course that addresses the theoretical issues related to CMC such as how we represent identity, form and maintain relationships, and the various levels of mass media consumption. (GR)

COMM-108 Visual Communication
54.00 hrs lecture, 36.00 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: Business, Technology, and Learning Resources

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 & UC
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. 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)

CAOT-101C Computer Applications III
27.00 hrs lecture, 27.00 hrs lab
Units: 2.00
Advisory: CAOT-10B
Accepted For Credit: CSU
This course is the third 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)

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 (GR)

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

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 memo business and personal letters and simple reports. Repeatable = 3 times (GR)

CAOT-110C Beginning Keyboarding III
9.00 hrs lecture, 27.00 hrs lab
Units: 1.00
Prerequisite: CAOT-110B
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
Prerequisite: CAOT-110C
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 course includes production typing with emphasis on speed and accuracy in the preparation of table mastery, forms, financial documents, graphic enhancements, meeting management; and legal, medical, and employment documents. (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-134  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 MS Word, 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: ENGL-151A  
Accepted For Credit: CSU  
This course is an introduction to the Internet. It will describe the history and architecture of the Internet and will show participants how to use the various services and tools of the Internet, including Web browsers, search engines for research, social media, cyberlaw, and basic 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, 27.00 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, 27.00 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)

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 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)

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-120  VMware: Install, Configure, Manage  
27.00 hrs lecture, 27.00 hrs lab  
Units: 2.00  
Accepted For Credit: CSU  
This hands-on training course explores installation, configuration, and management of VMware® vSphere™, which consists of VMware ESXi/ESX™ and VMware vCenter™ Server. Upon completion of this course students can take the examination to become a VMware Certified Professional. The course is based on ESXi 4.0, ESX 4.0, and vCenter Server 4.0. Repeatable = 3 times (GC)

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 practices help 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 course 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  
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 Network 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: CNET-150
Advisory: CNET-105 or CNET-151
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
Accepted For Credit: CSU
This course provides students with the knowledge and skills necessary to set up and support the current Windows Client Operating System, and prepare for the corresponding Microsoft Certified Technology Specialist (MCTS) exam. Students will get practical experience installing, administrating, and troubleshooting this next-generation desktop environment. Repeatable = 3 times (GR)

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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Units</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Credit Acceptance</th>
<th>Repeatable Times</th>
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<tbody>
<tr>
<td>CNET-161B</td>
<td>Desktop Support II – Supporting Applications</td>
<td></td>
<td>2.00</td>
<td>27.00</td>
<td>27.00</td>
<td>CSU</td>
<td>3 times (GC)</td>
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<tr>
<td>CNET-162</td>
<td>Windows Network Infrastructure Administration</td>
<td></td>
<td>2.00</td>
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<td>27.00</td>
<td>CSU</td>
<td>3 times (GC)</td>
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<tr>
<td>CNET-164</td>
<td>Microsoft Directory Services</td>
<td></td>
<td>2.00</td>
<td>27.00</td>
<td>27.00</td>
<td>CSU</td>
<td>3 times (GC)</td>
</tr>
<tr>
<td>CNET-165A</td>
<td>Designing a Secure Microsoft Windows Network</td>
<td>CNET-150, CS-157, CNET-157, CNET-160A, CNET-162A, CNET-162B, CNET-164A</td>
<td>2.00</td>
<td>27.00</td>
<td>27.00</td>
<td>CSU</td>
<td>3 times (GC)</td>
</tr>
<tr>
<td>CNET-165B</td>
<td>Microsoft Internet Security and Acceleration Server (ISA)</td>
<td>CNET-160A, CNET-162A, CS-157, CNET-157</td>
<td>2.00</td>
<td>27.00</td>
<td>27.00</td>
<td>CSU</td>
<td>3 times (GC)</td>
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<tr>
<td>CNET-166</td>
<td>Microsoft Server Operating Systems</td>
<td></td>
<td>2.00</td>
<td>27.00</td>
<td>27.00</td>
<td>CSU</td>
<td>3 times (GC)</td>
</tr>
<tr>
<td>CNET-167A</td>
<td>Administering Microsoft Exchange Server 2010</td>
<td></td>
<td>2.00</td>
<td>27.00</td>
<td>27.00</td>
<td>CSU</td>
<td>3 times (GC)</td>
</tr>
<tr>
<td>CNET-168A</td>
<td>Maintaining a Microsoft SQL Server 2008 Database</td>
<td></td>
<td>2.00</td>
<td>27.00</td>
<td>27.00</td>
<td>CSU</td>
<td>3 times (GC)</td>
</tr>
</tbody>
</table>
CNET-170      Network Security
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: CNET-150
Advisory: CS-146 or 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-180      Advanced Routing (CCNP ROUTE)
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
This course teaches students how to monitor and maintain complex, enterprise routed and switched IP networks. Skills learned include the planning and execution of regular network maintenance, as well as support and troubleshooting using technology-based processes and best practices, in a systematic and ITIL-compliant approach. Extensive labs emphasize hands-on learning and practice to reinforce troubleshooting techniques. Repeatable = 3 times (GC)

CNET-184      Advanced Switching (CCNP SWITCH)
27.00 hrs lecture, 81.00 hrs lab
Units: 3.00
Accepted For Credit: CSU
This course enables learners to use appropriate technologies to build scalable multilayer switched networks, to create and deploy a global intranet, and to implement basic troubleshooting techniques in environments that use Cisco multilayer switches for client hosts and services. This course also enables learners to improve traffic flow, reliability, redundancy, and performance for LAN switching that is self-supported or transported via a service provider. This course will prepare students for the Cisco Certified Networking Professional (CCNP SWITCH) exam. Repeatable = 3 times (GC)

CNET-186      Troubleshooting IP Networks (CCNP TSHOOT)
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: CNET-182 and CNET-184
Accepted For Credit: CSU
This course teaches students how to monitor and maintain complex, enterprise routed and switched IP networks. Skills learned include the planning and execution of regular network maintenance, as well as support and troubleshooting using technology-based processes and best practices, in a systematic and ITIL-compliant approach. Extensive labs emphasize hands-on learning and practice to reinforce troubleshooting techniques. Repeatable = 3 times (GC)

CNET-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)

CNET-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)

CNET-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)

CNET-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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COMPUTER SCIENCE
Division: Business, Technology, and Learning Resources

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)

CS-104B  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. Topics covered will include 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)

CS-104D  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)

CS-113  Discrete Mathematics for Computers  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: MATH-163  
Prerequisite: MATH-188  
Accepted For Credit: CSU & UC  
This course is an introduction to discrete mathematics and its applications. Topics to be covered include logic, sets, relations, functions, combinatorics, graph and tree theory, Boolean algebra, Proofs, and algorithms. Applications to computer studies and other related areas will be presented. (GC)

CS-116  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 event-driven programming, structured programming, most of the standard tools, and user interface strategies. This course is designed primarily for computer science and related transfer majors. (GC)

CS-118  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)

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-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)

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**Did you know??**

Community college students who earned a vocational degree or certificate in 2005-2006 saw their wages jump from $29,750 (for the last year before receipt of the award) to $58,777 four years after earning their degree (2009), an increase of almost 100 percent.

Source: Accountability Reporting for Community Colleges.
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  
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 & UC  
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. (GC)

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: CS-160A, GA-160A, ART-160A, or BA-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 XML 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-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
Accepted For Credit: CSU
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
Accepted For Credit: CSU
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-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 Mark-up Language), XSL (extensible Style Language), and DSSSL (Document Style Symantics and Specification Language). Repeatable = 1 time (GC)
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
Accepted For Credit: CSU
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 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 are based on hours worked. (GC)
DEAF PREPARATORY PROGRAM

Division: Deaf Studies

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 in 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 and writing sentences. 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. 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  Deaf Vocational Awareness  
18.00 hrs lecture, 54.00 hrs lab  
Units: 2.00  
Advisory: 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-195A; 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 strong 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 = 3 times (GC)

DEAF-175A  IUPP Grammar I  
54.00 hrs lecture  
Units: 3.00  
This course is designed for students who wish to improve their grammar through exposure to words found in academic coursework. Taught in ASL only. 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 (GC)

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 (GC)
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 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 well-developed
and 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 (GR)

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)

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**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  
Accepted For Credit: CSU  
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  
Accepted For Credit: CSU  
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)

**ECS-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)

**ECS-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)

**ECS-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 receive are based on hours worked. (GC)

**ECS-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)

**ECS-300  Principles and Practices of Teaching Young Children**
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: Eligible for ENGL-101A  
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) C-ID ECE 120

**ECS-301  Childhood Growth and Development**
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A; ECS-300 and ECS-304  
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  
72.00 hrs lecture  
Units: 4.00  
Advisory: Eligible for ENGL-101A; ECS-300 and ECS-301  
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  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A; ECS-300 or ECS-301  
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) C-ID CDEV 110

ECS-304  Observation and Assessment of Children  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: Eligible for ENGL-101A; ECS-300, ECS-301  
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) C-ID ECE 200

ECS-305  Health Safety and Nutrition  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A; ECS-300  
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) C-ID ECE 220

ECS-306  Guidance and Discipline of Young Children  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-101A  
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  
Children in the Child Lab  
36.00 hrs lecture, 108.00 hrs lab  
Units: 4.00  
Prerequisite: ECS-307A4  
Advisory: ECS-300, ENGL-101A  
Accepted For Credit: CSU  
This course offers 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 Care Lab. Students will perform the competencies of a teacher. (GR)

ECS-307B4  Intermediate Practicum – Field Work  
36.00 hrs lecture, 108.00 hrs lab  
Units: 4.00  
Prerequisite: ECS-307A4  
Advisory: ENGL-101A  
Accepted For Credit: CSU  
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 Care Lab. Students will perform the competencies of a Head Teacher/Site Director. (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  
Accepted For Credit: CSU  
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) C-ID ECE 230

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### 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

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

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

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

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, storytelling and reading to children. Students will learn how to extend literature into other curriculum areas. (GR)

### ECS-315 Children with Special Needs in Programs for Young Children
- **54.00 hrs lecture**
- **Units:** 3.00
- **Advisory:** Eligible for ENGL-101A

This course focuses on recognizing and distinguishing the variety of special needs exhibited by children 0 through 12 years. Factors affecting and contributing to the causes and needs of these children will be explored, including genetic, environmental, physical, cognitive, and social. (GR)

### ECS-316 Infant and Toddler Development and Care
- **36.00 hrs lecture, 54.00 hrs lab**
- **Units:** 3.00
- **Prerequisite:** ECS-301

Students will study infant and toddlers’ physical growth, social adjustment, and the psychological and social roots from which children develop. Students practice planning environments and equipment selection, health, safety, caregiving routines, and communication skills in group settings, working with infants and toddlers. (GR)

### ECS-317 Introduction to Family Child Care Homes
- **18.00 hrs lecture**
- **Units:** 1.00

This course will cover the operation of child care in a home setting. Topics will include home setup, business practices and policies, program planning, parent relations, and communications. California licensing regulations will be covered. Not applicable to associate degree. (CR)

### ECS-318 Supervision in Early Childhood Programs
- **54.00 hrs lecture**
- **Units:** 3.00
- **Prerequisite:** ECS-300, ECS-301, and ECS-303
- **Advisory:** Eligible for ENGL-101A

This course covers group dynamics, supervision of staff and parents, development of motivation and morale, leadership skills, and functions of personnel. It includes interviews, interpersonal and group conflict resolution, staff evaluations, and working with parents and boards. It is designed to provide knowledge and methods for those working in supervisory capacities in early childhood programs. (GR)

### ECS-319 Mentoring and Supervision in Early Childhood Programs
- **54.00 hrs lecture**
- **Units:** 2.00
- **Advisory:** ECS-301, ECS-302, eligible for ENGL-101A

This course is a study of the methods and principles of supervising student teachers, assistant teachers, parents, and volunteers in early childhood education programs. Emphasis is on the role of master teachers who function as both supervisors and mentors while addressing the needs of children, parents, and other staff. (GR)

### ECS-320 Advanced Training in Infant-Toddler Care
- **54.00 hrs lecture**
- **Units:** 3.00
- **Prerequisite:** ECS-300, ECS-301, ECS-317

Advanced ECS students will study infant/toddler growth and development in all domains. Specific consideration will be given to planning environments, recognizing and diagnosing delays, relationships with parents, effect of nurturing, and the group setting on very young children. Repeatable = 1 time (GR)
ECS-324  Parenting  
54.00 hrs lecture  
Units: 3.00  
Advisory: Eligible for ENGL-151B  
Accepted For Credit: CSU  
This introductory course is an exploration of the role and relationships involved in parenting. It explores the historical context and changes in perceptions and responsibilities assigned to parents in American society. Topics include history of parenting, parenting styles, beliefs and values, skills and methods, relationships, and basic child development. Repeatable = 1 time (GR)

ECS-325A  Workshop Series for Parents and Teachers  
9.00 hrs lecture  
Units: 0.50  
This course is a workshop for parents and teachers covering specific topics in the field of Early Childhood Studies. The theme and content varies and is determined by the Early Childhood Studies instructors. Not applicable to associate degree. Repeatable = 3 times (CR)

ECS-327  School Age Child Development  
54.00 hrs lecture  
Units: 3.00  
Advisory: ECS-301, ECS-302, ENGL-101A  
Accepted For Credit: CSU  
This course is the study of the developing child during the school-age years. It focuses on the developmental characteristics; influences on development; individual differences; physical, social-emotional, cognitive, and creative development. It examines the role of the teacher in programs designed for the school-age child. (GR)

ECS-328  Curriculum for the School Age Child  
54.00 hrs lecture  
Units: 3.00  
Prerequisite: ECS-301 and ECS-302  
Advisory: Eligible for ENGL-101A  
Accepted For Credit: CSU  
This course studies the fundamentals of planning, implementing, and evaluating curriculum for programs serving school-age children and their families. The emphasis is on developing and providing age appropriate activities, environment, and relationships in the context of an integrated and active curriculum. (GR)

ECS-329  Early Childhood Director's Seminar  
36.00 hrs lecture  
Units: 2.00  
Prerequisite: ECS Certificate of Achievement  
Advisory: Current employment as Director/Administrator  
Accepted For Credit: CSU  
This course provides on-going professional support, information, and resources for students who are currently administering Early Childhood Programs. A combination of dialogue, professional guest speakers, exposure to community resources, network building activities, current information on research, trends, and issues of the field will contribute to the student's competence, performance, and effectiveness in his/her supervisor role. Repeatable = 3 times (GC)

ECS-330  Second Helping for Family Childcare Providers  
36.00 hrs lecture  
Units: 2.00  
Prerequisite: ECS-320, 18 months experience in a licensed program  
This is the second course for Family Child Care Providers. It covers the role of the provider, the task of managing, relationships between caregivers and parents, and providing environments for children. Repeatable = 1 time (GC)
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
Advisory: Eligible for ENGL-151B, MATH-151
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
Advisory: Eligible for ENGL-151B and ENGL-163
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)

ENGI-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)

ENGI-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)

ENGI-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)

ENGI-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)
ENGINEERING TECHNOLOGY
Division: Science, Engineering, and Mathematics

ETEC-106  Electronics for Technology
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: Knowledge of basic algebra and trigonometry relationships
Accepted For Credit: CSU
This class is an introduction to electricity and electronic devices. Students will learn the basic theory of electricity and apply that knowledge to build, test, and troubleshoot electrical circuits. In the lab, students will learn to operate the test and measurement instrumentation necessary to support construction of electrical circuits. (GR)

ETEC-107  Properties of Materials
4.50 hrs lecture, 13.50 hrs lab
Units: 0.50
Advisory: MATH-151
Accepted For Credit: CSU
This course surveys materials, properties, and applications for technicians. Topics will include a brief introduction to the properties of metals, polymers, ceramics, and composites. (GR)

ENGLISH
Division: Language and Communication

ENGL-101A  Reading and Written Composition
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Prerequisite: ENGL-151B and ENGL-163, or appropriate skill level demonstrated through the placement test process
Accepted For Credit: CSU & UC
This course focuses on reading and writing of expository and argumentative works and introduction to research skills and documentation to develop students' ability to think critically and advocate ideas forcefully and accurately. Students will increase practical fluency by developing sentence, paragraph, thesis, and essay writing skills. (GR)

ENGL-101B  Reading and Composition (Introduction to Literature)
72.00 hrs lecture
Units: 4.00
Prerequisite: ENGL-101A
Accepted For Credit: CSU & UC
Students will read and evaluate literature in a critical, logical way. The emphasis will be upon critical analysis of literary works (novels, short story, poetry, and drama) and upon the students' development of an appreciation of literature. (GR)

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-110A
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. (GR)

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)

ENGL-115 Women in Literature
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: WS-115
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
Students will read, discuss, and write about short stories, novels, poetry, drama, and essays of British and American women writers past and present. (GC)

ENGL-117 Science Fiction and Fantasy
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
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)

ENGL-118 Introduction to Shakespeare
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
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)

ENGL-119 The Gothic Novel
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
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)

ENGL-120A Survey of American Literature: Beginning to 1865
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
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)

ENGL-120B Survey of American Literature: 1865 to Present
54.00 hrs lecture
Units: 3.00
Advisory: ENGL-101A
Accepted For Credit: CSU & UC
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)
<table>
<thead>
<tr>
<th>Course Code</th>
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<td>The Mystery: Unlocking Its Secrets</td>
<td>3.00</td>
<td>54.00</td>
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<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>
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<td>English Literature: From the Middle Ages to the Restoration/18th Century</td>
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<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>
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<td>This 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>
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<td>American Stories: Multicultural Autobiography and Memoir</td>
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<td>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)</td>
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<td>ENGL-131</td>
<td>Hip Hop/Slam Poetry</td>
<td>3.00</td>
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<td>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)</td>
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<td>ENGL-141</td>
<td>Advanced Novel and Short Story Writing</td>
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<td>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)</td>
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<td>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. (GR)</td>
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<td>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. (GR)</td>
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<tr>
<td>ENGL-151A</td>
<td>Fundamentals of Composition</td>
<td>4.00</td>
<td>54.00</td>
<td></td>
<td></td>
<td>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. (GR)</td>
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<tr>
<td>ENGL-151B</td>
<td>Fundamentals of Composition</td>
<td>4.00</td>
<td>54.00</td>
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<td>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. (GR)</td>
</tr>
<tr>
<td>ENGL-127</td>
<td>Autobiography: Writing Journals and Memoirs</td>
<td>3.00</td>
<td>54.00</td>
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<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>
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<tr>
<td>ENGL-129</td>
<td>Psychology and Literature</td>
<td>3.00</td>
<td>54.00</td>
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<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>
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<tr>
<td>ENGL-125B</td>
<td>English Literature: From Romanticism to Modernism</td>
<td>3.00</td>
<td>54.00</td>
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<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>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Hours</td>
<td>Units</td>
<td>Description</td>
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<tr>
<td>ENGL-156</td>
<td>Introduction to Report and Technical Writing</td>
<td>54.00</td>
<td>3.00</td>
<td>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)</td>
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<tr>
<td>ENGL-162</td>
<td>Developmental Reading</td>
<td>54.00</td>
<td>4.00</td>
<td>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)</td>
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<tr>
<td>ENGL-163</td>
<td>Techniques of College Reading</td>
<td>54.00</td>
<td>4.00</td>
<td>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)</td>
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<tr>
<td>ENGL-167</td>
<td>Critical and Analytical Reading</td>
<td>54.00</td>
<td>3.00</td>
<td>ENGL-172 Vocabulary Improvement</td>
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<tr>
<td>ENGL-172</td>
<td>Vocabulary Improvement</td>
<td>54.00</td>
<td>1.00</td>
<td>ENGL-172 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)</td>
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<tr>
<td>ENGL-173</td>
<td>Improvement of Learning Techniques</td>
<td>54.00</td>
<td>1.00</td>
<td>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)</td>
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<tr>
<td>ENGL-174</td>
<td>Spelling Improvement</td>
<td>54.00</td>
<td>1.00</td>
<td>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)</td>
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<tr>
<td>ENGL-175</td>
<td>Reading and Comprehension Improvement</td>
<td>54.00</td>
<td>1.00</td>
<td>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)</td>
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<tr>
<td>ENGL-176</td>
<td>Rapid Reading</td>
<td>54.00</td>
<td>1.00</td>
<td>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)</td>
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<tr>
<td>ENGL-365</td>
<td>Supervised Tutoring</td>
<td>90.00</td>
<td>0.00</td>
<td>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)</td>
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**ENGLISH AS A SECOND LANGUAGE**

Division: Language and Communication

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL-121</td>
<td>English Idioms</td>
<td>36.00</td>
<td>2.00</td>
<td>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)</td>
</tr>
<tr>
<td>ESL-122</td>
<td>News and Current Events for ESL Students</td>
<td>36.00</td>
<td>2.00</td>
<td>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)</td>
</tr>
</tbody>
</table>
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
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. (GR)

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. (GR)

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. (GR)

ESL-191  Grammar and Editing Skills
54.00 hrs lecture
Units: 3.00
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-184RW  Reading and Writing, Level IV
72.00 hrs lecture
Units: 4.00
Prerequisite: ESL-183RW or ESL Placement Test
This course has completed any of the following courses: 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. (GR)

ESL-365  ESL – 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
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. (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)

**GENDER AND WOMEN’S STUDIES**
Division: Arts and Social Sciences

**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) C-ID SOCI 140

**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
Students will read, discuss, and write about short stories, novels, 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)
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)

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)

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)

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 on 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)

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)

Introduction to Global Positioning Systems (GPS)
9.00 hrs lecture, 27.00 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)

Introduction to Geographic Information Systems (GIS)
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
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)

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. (GC)

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)

Introduction to Geology
54.00 hrs lecture, 54.00 hrs lab
Units: 4.00
Accepted For Credit: CSU & UC
Geological processes that shape the earth and its history. Special attention is given to the global geological phenomena (earthquakes, volcanoes, plate tectonics), the concept of “deep” time, natural resources, and the interaction between humans and their environment. (GC) C-ID GEOL 101

Introduction to Oceanography
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
The study of the marine realm from the physical, biological, and cultural perspective including the origin of the oceans, plate tectonics, waves, tides, marine life, and human impact on the marine environment. Field trip includes a Bay cruise. (GC)
**GEOL-102L Oceanography Laboratory**
54.00 hrs lab
Units: 1.00
Corequisite: GEOL-102
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU & UC
GEOL-102L is designed to supplement GEOL-102. The lab will consist of hands-on exercises and two Saturday field trips that illuminate various aspects of ocean science. This will include working with maps, living and fossil specimens of marine life, Web-based study of global plate tectonics, field observations of marine rocks, fossils, and living organisms in tide pools, and the study of San Francisco Bay onboard a ship. (GC)

**GEOL-103 Paleontology and Dinosaurs**
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163; GEOL-103L
Accepted For Credit: CSU & UC
This course is a journey through time that examines the history of life from its beginnings to the end of the last Ice Age, the changing Earth, evolution, mass extinctions, and fossils of dinosaurs and their relatives. Up to two Saturday field trips will be required. (GC)

**GEOL-103L Earth History and Paleontology Laboratory**
54.00 hrs lab
Units: 1.00
Corequisite: GEOL-103 or GEOL-104
Advisory: Eligible for MATH-151
Accepted For Credit: CSU & UC
Hands-on studies of Earth history as revealed by rocks and fossils representing different stages in evolution of the Earth and life through geologic time. Labs include map exercises, relative and numerical age determinations, reconstructions of geological history of North America, and studies of fossil specimens of animals and plants from all over the world. A Saturday field trip may be required. This course is an optional supplement to GEOL-103 or GEOL-104. (GR)

**GEOL-104 The Changing Earth: Historical Geology**
54.00 hrs lecture
Units: 3.00
Accepted For Credit: CSU & UC
The study of the origin and evolution of Earth and life through time. Geological history and global change as revealed by plate tectonics, rocks, fossils, and evidence for climatic change, both ancient and recent. The development of continents, especially North America, ocean basins, and mountains. One Saturday field trip required. (GR)

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**GRAPHIC ARTS**

Division: Arts and Social Sciences

**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 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-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-110B
Accepted For Credit: CSU
This course gives advanced attention to design solution and presentation. The course 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 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)

**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. A digital camera is not required. 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: GA-160A, ART-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 (GC)

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: GA-169A or ART-139A  
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 = 3 times (GC)

HEALTH

Division: Exercise Science and Athletics

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-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-102A  Chicana/o History I  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: CHS-102A  
Advisory: ENGL-101A  
Accepted For Credit: CSU  
Covers the history of Chicanas and Chicanos from Pre-Colombian times to 1850. Emphasizes the political, economic, and social influences of Pre-Columbian America, Spain, Mexico, and the United States. Includes a study of the United States Constitution. (GR)

HIST-102B  Chicana/o History II  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: CHS-102B  
Advisory: ENGL-101A  
Accepted For Credit: CSU  
Covers the history of the Mexican-American experience from 1850 to the present day. Emphasizes the political, economic, and social experiences of the Mexican American people under the influences of Mexico and the United States. Includes a study of the Constitution of California. (GR)

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 class examines the impact of film on our lives and history. Students will review films, discuss, and analyze techniques used. (GR)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lecture Hours</th>
<th>Units</th>
<th>Advisory</th>
<th>Cross-Referenced Courses</th>
<th>Accepted For Credit: CSU &amp; UC</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST-114A</td>
<td>African American History 1619-1877</td>
<td>54.00</td>
<td>3.00</td>
<td></td>
<td></td>
<td></td>
<td>This course covers the history of African Americans from the early 17th century to 1877. Political, social, cultural, and economic experiences will be discussed. (GC)</td>
</tr>
<tr>
<td>HIST-115</td>
<td>Asian-American History</td>
<td>54.00</td>
<td>3.00</td>
<td></td>
<td>Eligible for ENGL-101A</td>
<td></td>
<td>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)</td>
</tr>
<tr>
<td>HIST-117A</td>
<td>History of the United States</td>
<td>54.00</td>
<td>3.00</td>
<td></td>
<td>Eligible for ENGL-101A</td>
<td></td>
<td>This course surveys the history of the United States from pre-colonial times through Reconstruction (1877). (GR)</td>
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<tr>
<td>HIST-117B</td>
<td>History of the United States</td>
<td>54.00</td>
<td>3.00</td>
<td></td>
<td>Eligible for ENGL-101A</td>
<td></td>
<td>This course surveys the history of the United States from 1877 (the end of Reconstruction) to the present. (GC)</td>
</tr>
<tr>
<td>HIST-118</td>
<td>Contemporary U.S. History: 1945 -</td>
<td>54.00</td>
<td>3.00</td>
<td></td>
<td>Eligible for ENGL-101A</td>
<td></td>
<td>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)</td>
</tr>
<tr>
<td>HIST-119A</td>
<td>Bad Girls: Women in America Before 1890</td>
<td>54.00</td>
<td>3.00</td>
<td></td>
<td>Eligible for ENGL-151B and ENGL-163</td>
<td></td>
<td>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)</td>
</tr>
<tr>
<td>HIST-119B</td>
<td>Bad Girls: Women in America From 1890</td>
<td>54.00</td>
<td>3.00</td>
<td></td>
<td>ENGL-101A</td>
<td></td>
<td>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)</td>
</tr>
<tr>
<td>HIST-141</td>
<td>A History of Early Rock and Roll:</td>
<td>54.00</td>
<td>3.00</td>
<td></td>
<td>IS-142, MUS-122</td>
<td></td>
<td>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 &amp; roll simultaneously reflects and affects society by grounding the key people, events, and songs within their historical context. (GC)</td>
</tr>
<tr>
<td>HIST-142</td>
<td>History of Rock and Roll:</td>
<td>54.00</td>
<td>3.00</td>
<td></td>
<td>IS-143, MUS-123</td>
<td></td>
<td>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 roll and the American Culture. (GC)</td>
</tr>
<tr>
<td>HIST-143</td>
<td>History of Rock and Roll:</td>
<td>54.00</td>
<td>3.00</td>
<td></td>
<td>MUS-125</td>
<td></td>
<td>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)</td>
</tr>
</tbody>
</table>
INTERDISCIPLINARY STUDIES
Division: Arts and Social Sciences

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. The course is taught by three instructors, one from each discipline. (GR)

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. (GR)

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)

IS-142  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 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  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: Arts and Social Sciences

ID-150A  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. (GR)

ID-150B  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  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  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  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  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, or 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  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  Architectural Modelmaking 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  Professional Practice for Interior Design  
54.00 hrs lecture  
Units: 3.00  
Cross-referenced Course: ART-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)

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 (CR)

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. (CR)
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)

INT-116  Discourse Analysis: English
54.00 hrs lecture  
Units: 3.00  
Accepted For Credit: CSU  
This course is an overview of English discourse. Topics include discourse structure, language variation, genre, register, prosody, cohesion, turn-taking, and gendered communication. Transcription conventions will be reviewed for noting language samples. (GC)

INT-127  Ethics I
18.00 hrs lecture  
Units: 1.00  
Accepted For Credit: CSU  
This course will focus on identifying and exploring students’ personal ethics and beliefs as well as those of the U.S. majority culture. (GC)

INT-145  Practicum: Deaf Mentorship
243.00 hrs lab  
Units: 4.50  
Prerequisite: Completion of first semester 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. (GR)

INT-147  Introduction to Interpreting for People Who Are Deaf/Blind
36.00 hrs lecture  
Units: 2.00  
Accepted For Credit: CSU  
This course exposes students to background information about people who are Deaf-Blind including modes and principles of communication, aspects of the community, and guiding techniques. (GR)

INT-153  Interpreting: ASL to English
72.00 hrs lecture, 108.00 hrs lab  
Units: 6.00  
Corequisite: INT-145, INT-147, INT-199A, INT-199B  
Accepted For Credit: CSU  
The focus of this course is interpreting from ASL into spoken English. Texts will be analyzed for language use and meaning and interpreted into English, both written and spoken. Consecutive and simultaneous interpreting will be studied and practiced. (GC)

INT-180  Ethics, Role, Responsibility
54.00 hrs lecture  
Units: 3.00  
Prerequisite: Completion of three semesters of IPP courses  
Corequisite: INT-181 and INT-190  
Accepted For Credit: CSU  
Through lecture, discussion, and role play this course will define ethics related terms, discuss values in American society, and those values that underlie the code of ethics of the Registry of Interpreters for the Deaf (RID). Further clarification of interpreter role, professional behavior, the business of interpreting, RID Certification, and professional liability will be included. This course is taught in ASL only. Repeatable = 1 time (GR)

INT-190  Interpreting Internship
270.00 hrs lab  
Units: 5.00  
Prerequisite: Completion of three semesters of IPP courses  
Corequisite: INT-180 and INT-181  
This course is designed to give IPP students a concentrated field experience in interpreting. Students will spend 200 hours working in several facilities providing interpreting services to Deaf individuals. Students will have on-site, RID-certified interpreters as their supervisors. A weekly seminar with the instructor will focus on interpreting issues and fieldwork experiences. Repeatable = 1 time (GR)

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-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) (GC)
INT-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) (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 classes 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 in 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  
Prerequisite: INT-145, INT-147, INT-153, INT-199A  
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 intrapersonal 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
54.00 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: Language and Communication

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)

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-146 Photography/Graphic Arts Newspaper Staff  
9.00 hrs lecture, 2700 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-147 students are expected to produce two photos or graphics 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)

JOUR-170 Newspaper Writing and Editing Staff  
9.00 hrs lecture, 2700 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 (GC)

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Did you know???

The term “community college” was first used by President Harry Truman in 1947 in a study he commissioned on higher education. The idea of community colleges appealed to the President, and his administration began to put in place mechanisms to foster the growth of such institutions around the country.

Source: American Association of Community Colleges

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2012-2013 OHLONE COLLEGE CATALOG
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 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 for 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 one story or graphic 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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Units</th>
<th>Advisory</th>
<th>Accepted For Credit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN-240</td>
<td>Theory of Physical Education, Fitness, and Sport</td>
<td>54.00</td>
<td>3.00</td>
<td></td>
<td>CSU &amp; UC</td>
<td>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) C-ID KIN 100</td>
</tr>
<tr>
<td>KIN-241</td>
<td>College Success for Athletes</td>
<td>36.00</td>
<td>2.00</td>
<td></td>
<td>CSU</td>
<td>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, 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)</td>
</tr>
<tr>
<td>KIN-242</td>
<td>Sociology of Sport</td>
<td>54.00</td>
<td>3.00</td>
<td>ENGL-151B and BIOL-103A</td>
<td>CSU &amp; UC</td>
<td>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)</td>
</tr>
<tr>
<td>KIN-243</td>
<td>Sports Marketing</td>
<td>54.00</td>
<td>3.00</td>
<td></td>
<td>CSU</td>
<td>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)</td>
</tr>
<tr>
<td>KIN-244</td>
<td>Sports Management</td>
<td>54.00</td>
<td>3.00</td>
<td></td>
<td>CSU</td>
<td>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)</td>
</tr>
<tr>
<td>KIN-251</td>
<td>Fitness for Life</td>
<td>54.00</td>
<td>3.00</td>
<td></td>
<td>CSU &amp; UC</td>
<td>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)</td>
</tr>
<tr>
<td>KIN-256</td>
<td>Sports Performance Testing</td>
<td>18.00</td>
<td>2.00</td>
<td></td>
<td>CSU</td>
<td>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)</td>
</tr>
<tr>
<td>KIN-257</td>
<td>Prevention and Care of Athletic Injuries</td>
<td>54.00</td>
<td>4.00</td>
<td>ENGL-151B and BIOL-103A</td>
<td>CSU &amp; UC</td>
<td>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)</td>
</tr>
<tr>
<td>KIN-258</td>
<td>Exercise Prescription</td>
<td>36.00</td>
<td>3.00</td>
<td></td>
<td>CSU</td>
<td>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)</td>
</tr>
<tr>
<td>KIN-261</td>
<td>Sports Psychology</td>
<td>54.00</td>
<td>3.00</td>
<td></td>
<td>CSU</td>
<td>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)</td>
</tr>
<tr>
<td>KIN-381</td>
<td>Clinical Experiences in Athletic Training I</td>
<td>54.00</td>
<td>1.00</td>
<td>KIN-257</td>
<td>CSU</td>
<td>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)</td>
</tr>
</tbody>
</table>
LEARNING SKILLS PROGRAM

Division: Counseling

LSP-101 Learning Skills: Writing Fundamentals
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)

LIBRARY SCIENCE

Division: Business, Technology, and Learning Resources

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)

MATHEMATICS

Division: Science, Technology, and Mathematics

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-103 Introduction to Linear Algebra
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) C-ID MATH 230

MATH-104 Differential Equations
90.00 hrs lecture
Units: 5.00
Prerequisite: MATH-101B
Advisory: MATH-101C and MATH-103
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) C-ID MATH 250

MATH-103 Introduction to Matlab
54.00 hrs lecture
Units: 3.00
Prerequisite: MATH-101B
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) C-ID MATH 240

MATH-151 Algebra I
90.00 hrs lecture
Units: 5.00
Prerequisite: MATH-191 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 functions, 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 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. The course 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 an introduction to discrete mathematics and its applications. Topics to be covered include logic, sets, relations, functions, combinatorics, graph and tree theory, Boolean algebra, Proofs, and algorithms. Applications to computer studies and other related areas will be presented. (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-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-ratios, 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-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: Arts and Social Sciences

MM-102A  Introduction to Multimedia
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
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
Advisory: MM-102A
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 & 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)

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 YouTube, 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-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
Advisory: MM-114 and MM-115
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-121A 3D Modeling
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: CS-101
Accepted For Credit: CSU
Students will learn different techniques to model virtual objects and environments using 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. Introduction to basic 3D animation techniques may be covered. Simple animations may be created. Repeatable = 1 time (GC)

MM-121B 3D Animation
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: MM-121A
Advisory: MM-102A
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. The topics covered include storyboards, principles of animation, function curves, bones, introduction to inverse kinematics, camera motion, scene direction, and exporting animations in different file formats. Repeatable = 1 time (GC)

MM-121C Advanced 3D Modeling and Animation
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: MM-121B
Advisory: MM-102A
Accepted For Credit: CSU
Students will learn advanced techniques in modeling and animation using 3D animation software. The topics include advanced modeling tools, texture mapping, lighting and reflection effects, function curves, particle systems, camera effects, scene direction, adding sound, basic video editing, and advanced animation using inverse kinematics. Repeatable = 1 time (GC)

MM-160 Multimedia Portfolio Development
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Prerequisite: MM-105
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, 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)

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)

MM-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)

MM-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)
MUS-100 Survey of the Arts
Units: 3.00
Accepted For Credit: CSU & UC
This course concentrates on the development of an attentive style of listening, the introduction and systematic study of the building blocks of music, and enhancing awareness of the main musical styles of selected western cultures. (GR)

MUS-101 Music Appreciation: Western Classical Music
Units: 3.00
Accepted For Credit: CSU & UC
This course includes the study of major and minor scales, modal tonality, chord construction, rhythmic meters, and the introductory analysis of diatonic harmony and non-harmonic tones. This course is the first in the four-semester theory sequence. (GR)

MUS-102 Music Appreciation
Units: 3.00
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
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
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-106 Harmony
Units: 3.00
Corequisite: MUS-111A
Prerequisite: MUS-110A
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-107 Advanced Harmony
Units: 3.00
Corequisite: MUS-111D
Prerequisite: MUS-110C
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-108 Song Writing
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
Units: 3.00
Corequisite: MUS-111A
Accepted For Credit: CSU & UC
This course includes the study of major and minor scales, modal tonality, chord construction, rhythmic meters, and the introductory analysis of diatonic harmony and non-harmonic tones. This course is the first in the four-semester theory sequence. (GR)

MUS-110B Harmony
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
Units: 3.00
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
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 I
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
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-110D. (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 Pro Tools system. This course covers all the key concepts and skills needed to operate a Pro Tools system. (GR)

MUS-112C  Pro Tools 201  
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: MUS-112A, 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  
56.00 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-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 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-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. (GC)

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-160F  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
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-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-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-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-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  
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-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 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 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  
Accepted For Credit: CSU & UC  
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  
Accepted For Credit: CSU & UC  
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 Accepted For Credit: CSU & UC 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 Accepted For Credit: CSU & UC 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-166C 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-166D 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-169A Jazz Guitar 18.00 hrs lecture, 36.00 hrs lab Units: 1.00 Prerequisite: Some playing ability required Accepted For Credit: CSU & UC Various aspects of jazz guitar with special emphasis on improvisation and harmony are presented in group instruction. Repeatable = 3 times (GR)

MUS-169B Blues/Rock Guitar 18.00 hrs lecture, 36.00 hrs lab Units: 1.00 Prerequisite: Previous playing experience Accepted For Credit: CSU & UC Blues/rock improvisation and accompaniment. Lecture, demonstration, and in-class playing are presented in a group instruction class. Repeatable = 3 times (GR)

MUS-192 Music for Minors: Music Docent Training 45.00 hrs lecture, 2700 hrs lab Units: 3.00 Advisory: Ability to keep beat and sing on pitch This course provides training to teach the elements of music through active participation in a comprehensive music program for elementary school classrooms. It is required as the basic training for Music for Minors which provides a minimum of 1/2 hour weekly instruction in elementary classrooms for at least one school year. Repeatable = 1 time (GR)
MUS-351  Performance Ensembles
54.00 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-352  Jazz/Rock Combos
54.00 hrs lab
Units: 1.00
Advisory: Ability to read music
Accepted For Credit: CSU
This course includes sight-reading, preparation, performance, and recording of various styles of music composed and arranged for standard Jazz, Rock, Jump, Blues, and Latin ensembles. Emphasis is on groove playing and feel. Additional emphasis on improvising within the ensemble structure is a goal for each student. Student composition and arranging is encouraged. Repeatable = 3 times (GR)

MUS-352B  Advanced Jazz/Rock Combos
54.00 hrs lab
Units: 1.00
Accepted For Credit: CSU
Advanced live-performance workshop for all instrumentalists and singers. This class is a continuation of the concepts covered in MUS-352 with greater emphasis on soloing, arranging, music theory, and contemporary performance practices. Repeatable = 3 times (GC)

MUS-354A  String Techniques – Ohlone Chamber Orchestra
54.00 hrs lab
Units: 0.50
Prerequisite: Demonstrate ability to read music
Accepted For Credit: CSU & UC
This course involves class instruction on all string instruments. Repeatable = 3 times (GC)

MUS-355  College Chorus
54.00 hrs lab
Units: 1.00
Accepted For Credit: CSU & UC
This choir is a predominately campus (full-time student) organization for the beginning choral singer. It is a non-audition choir which performs with the Chorale and Symphonic Choir as well as its own performance opportunities. Repeatable = 3 times (GC)

MUS-356  Chamber Singers
54.00 hrs lab
Units: 1.00
Prerequisite: Audition
Advisory: Ability to 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 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-358  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-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) 

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  
Accepted For Credit: CSU  
Nursing 301 is the first course in the nursing sequence. Students are introduced to the theory and practice of nursing based on the adaptation model. The 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 in 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 variations in concept of health and illness, use of health care delivery systems, communication differences and cultural variances in time, perception and personal space. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of fundamental nursing skills in a multimedia setting and utilization of both high and 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: Admission to the Registered Nursing program; NUR-301  
Accepted For Credit: CSU  
Nursing 302 is the second course in the nursing sequence. 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. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of nursing skills is in a multimedia setting and utilization of high and low fidelity mannequins 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: Admission to the Registered Nursing program; NUR-302  
Accepted For Credit: CSU  
Nursing 303 is the third course in the nursing sequence. 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 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 alternations 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 postpartum 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 practices 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. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of nursing skills in a multimedia setting with the use of intermediate and high-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: Admission to the Registered Nursing program; NUR-303  
Accepted For Credit: CSU  
Nursing 304 is the fourth course in the nursing sequence. 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. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of nursing skills is in a multimedia setting and utilization of high and low fidelity mannequins included. Clinical application of both theory and skills occurs in the hospital. (GR)

**NUR-305**  
**Nursing Care of the Medical-Surgical Patient III**  
45.00 hrs lecture, 135.00 hrs lab  
Units: 5.00  
Prerequisite: Admission to the Registered Nursing program; NUR-304  
Accepted For Credit: CSU  
Nursing 305 is the fifth course in the nursing sequence. The focus of this course is on nursing care issues related to the advanced management of adult and geriatric patients with alterations in the cardiovascular, respiratory, endoprotective, elimination, and neuro/sensation modes. Critical thinking will be promoted by assisting the students to interrelate pathophysiology, nursing assessments, implications of diagnostic tests, pharmacology and medical treatments. Students will utilize the nursing process to develop a plan of care that respects the individual’s cultural beliefs and promotes adaptive responses in adult and geriatric patients experiencing complex physiological and psychological alterations of the cardiovascular, respiratory, renal, endoprotective and neurological modes. Detailed objectives are written for each class and correlate with required preparation. Simulated practice of related skills in a multimedia setting and utilization of high fidelity mannequins is included. Clinical application of both theory and skills occurs in the acute care hospitals. (GR)

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**Did you know??**

In 2010-2011, the California Community College system continued to contribute to the state’s health care labor force, with more than 8,000 students earning degrees or certificates in nursing.

Source: Accountability Reporting for Community Colleges
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: Admission to the Registered Nursing program; NUR-305
Accepted For Credit: CSU
Nursing 306 is the sixth course in the nursing sequence. 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, critical thinking, spiritual health and cultural diversity through the use of actual clinical situations and/or simulations or role-playing. The clinical setting provides a variety of interactive 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. Detailed objectives are written for each class and correlate with required preparation. 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: Admission to the Registered Nursing program; NUR-306
Accepted For Credit: CSU
Nursing 307 is the final course in the nursing sequence. 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 for 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. Detailed objective are written for each class and correlate with required preparation. 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 first-year students interested in 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 & UC
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. (GC)
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. Not applicable to associate degree. 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 this course varies and is determined by the counseling faculty. Repeatable = 2 times (GC)

PD-113  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 = 1 time (CR)

PD-150  Career Planning  
36.00 hrs lecture  
Units: 2.00  
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)

PD-241  College Success for Athletes  
36.00 hrs lecture  
Units: 2.00  
Cross-referenced Course: KIN-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, 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)
PHILOSOPHY
Division: Arts and Social Sciences

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 philosophers 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-111 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-112 Introduction to Western Religions
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-114 Introduction to Islam
54.00 hrs lecture
Units: 3.00
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)
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 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 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 up to 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-307C2**  
**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-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 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; PE-320A2 or PE-320A3  
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)

**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)

**PE-322A2**  
**Golf: Chipping, Pitching, and Putting**  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year; PE-322A2 or PE-322A3  
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-322A2 or PE-322A3  
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)
**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

**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

**Strength Training**
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU  
This course is designed to assist the student in developing a strength and fitness program through the practical application of sound weight training techniques. Repeatable = 3 times

**Intermediate Strength Training**
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU  
This course is designed to assist the student with advanced strength training concepts and techniques for personal physical development and weight room independence. This course expands students' knowledge of progressive resistance (weight) training, with increased focus on free weights, thus increasing the variety and methods of training techniques. Repeatable = 3 times

**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)

**Circuit Training**
54.00 hrs lab  
Units: 1.00  
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)

**Strength and Cardio Training**
36.00 hrs lab  
Units: 0.50  
Accepted For Credit: CSU & UC  
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)

**Strength and Cardio Training**
54.00 hrs lab  
Units: 1.00  
Accepted For Credit: CSU & UC  
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)

**Total Fitness**
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
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)

**Total Fitness**
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
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)

**Sport Specific Training**
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU  
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)
PE-346A2  Guts and Butts  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
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)

PE-346A3  Guts and Butts  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
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)

PE-350A2  Learning to Swim  
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 learn how to 
swim and become less fearful of the water. This course is also 
recommemded for students wanting to become better 
swimmers. (GC)

PE-350A3  Learning to Swim  
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 learn how to 
swim and become less fearful of the water. This course is also 
recommemded for students wanting to become better 
swimmers. (GC)

PE-350B2  Intermediate Water Polo  
36.00 hrs lab  
Units: 0.50  
Advisory: Medical check within the 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-351A2  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-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-366A3**  
**Dance Aerobics**  
54.00 hrs lab  
Units: 1.00  
Advisory: Medical check within the last year  
Accepted For Credit: CSU & UC  
The student will maintain and improve cardiovascular fitness through the use of continuous rhythmic dance movements and strength building exercises. (GC)

**PE-367A2**  
**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-367A3**  
**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-372A2**  
**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 body conditioning class which includes a cardiovascular workout, abdominal strengthening, muscle toning, and stretching exercises. (GC)

**PE-372B2**  
**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, pushups, 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-372B3**  
**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, pushups, 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-374A2**  
**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-374A3**  
**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-375A2**  
**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)
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 of joint stability and increased range of motion. Repeatable = 3 times (GC)

This course is designed to explore the philosophies and positions related to yoga fundamentals. In addition, concepts of meditation will be introduced. 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 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 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. 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 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 class 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)
**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)

**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)

**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)

**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)

**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 passed with a grade of C or better  
Accepted For Credit: CSU  
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)

**Therapeutic Exercise II**

36.00 hrs lecture, 54.00 hrs lab  
Units: 3.00  
Prerequisite: Admission into 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-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-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-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. (GR)
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)

PHYSICS
Division: Science, Engineering, and Mathematics

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) C-ID PHYS 105

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) C-ID PHYS 110

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)
**PSYCHOLOGY**

Division: Arts and Social Sciences

**PSY-101**  
**General Psychology**  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an introduction to the study of behavior and mental processes, including psychology as a science, perception, motivation, intelligence, learning, memory, development, personality, mental health, and the biological and social bases of behavior. (GR) C-ID PSY 110

**PSY-102**  
**Introduction to Experimental Psychology**  
54.00 hrs lecture  
Units: 3.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
This course is an introduction to the theory and application of the scientific method in the study of animal and human behavior. The emphasis is on experimental procedures and data collection, research design, data analysis, presentation, and research report writing. (GC)
PSY-104  Murder in America
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: AJ-119
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)

PSY-105  Child Development
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course examines the development of children from conception until just prior to adolescence. Course includes the study of prenatal, physical, cognitive, linguistic, social, and emotional development. Course examines many of the concerns and complex issues involved in this developmental period, and considers the contexts in which they occur. (GC)

PSY-106  Adolescent Development
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is a study of human development during adolescence with an emphasis on social, emotional, biological, intellectual, and personality development. This course includes a study of the many issues involved in this development period with special emphasis on the context in which they occur: family, peers, school, and culture. (GC)

PSY-108  A Survey of Human Development
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-101A
Accepted For Credit: CSU & UC
This course is a study of human development from conception to death with an emphasis upon understanding events unique to each stage. (GC) C-ID PSY 180

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)

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REAL ESTATE
Division: Business, Technology, and Learning Resources

RE-117  Computer Applications in Real Estate
45.00 hrs lecture, 27.00 hrs lab
Units: 3.00
This course provides students with classroom and laboratory experience in computer applications and their use in the real estate industry. Students learn how computer applications and technology enhance one’s ability to engage in real estate practices. Students use software programs to perform tasks in word processing, spreadsheet, presentation, database, project/time management, and Web page creation. Software in the areas of real estate finance, real estate appraisal, property management, and residential sales are demonstrated. Students learn about the different types of computer and hardware devices. Students will utilize the Internet as a research and marketing tool. Repeatable = 1 time (GR)

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  
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, valid real estate license, 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-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)

RE-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)

RE-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)

RE-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)

RE-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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RESPIRATORY THERAPIST

Division: Health Sciences and Environmental Studies

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, mediated 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 (GR)

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 tubes and tracheotomy tubes; arterial blood sampling techniques; radiographic and electrocardiogram interpretation; and invasive and non-invasive monitoring. Repeatable = 1 time (CR)

RT-133  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
Accepted For Credit: CSU
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 enrollment; 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
Accepted For Credit: CSU
This course provides an in-depth survey of various pulmonary rehabilitation programs, and visitation of patients receiving respiratory home care. Repeatable = 1 time (CR)

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 hospitals. Repeatable = 2 times (GR, first enrollment; CR, subsequent enrollment)

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)

SOCIOLOGY  
Division: Arts and Social Sciences

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) C-ID SOCI 110

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) C-ID SOCI 115

SOC-103  Social Science Research Methods  
54.00 hrs lecture, 54.00 hrs lab  
Units: 4.00  
Advisory: ENGL-101A  
Accepted For Credit: CSU & UC  
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 & UC  
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)

SPANISH  
Division: Language and Communication

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 an introduction to fundamentals of Spanish grammar through the development of speaking, reading, writing, and listening skills. Course material is presented within the cultural context of Spanish-speaking countries. (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 an introduction to the fundamentals of Spanish
grammar through the development of speaking, reading,
writing, and listening skills. Course material is presented within
the cultural context of Spanish-speaking countries. It is a
continuation of SPAN-101A studies. (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)

SPCH-101  Introduction to Public Speaking
54.00 hrs lecture, 18.00 hrs lab
Units: 3.00
Advisory: Eligible for 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
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) C-ID
COMM 120

Did you know???
In 2010-2011 California Community Colleges
awarded 85,581 associate degrees.
Source: Community College League of California
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
Cross-referenced Course: WS-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)

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
courage critical thinking and community involvement. Repeatable = 3
times (GR)

SPCH-112A2 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
courage 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 (GC)

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
Explore family communication processes, roles, decision-
makeing 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-132 Voice and Diction
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: TD-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)
TAGALOG

Division: Language and Communication

TAG-181A Conversational Tagalog
54.00 hrs lecture
Units: 3.00
Advisory: Eligible for ENGL-151B and ENGL-163
Accepted For Credit: CSU
This course is designed to provide basic conversational skills in the Filipino language. Emphasis is placed on the basic usage, idioms, grammar, and structure of the Filipino language, as well as an introduction to Filipino culture and history. (GR)

TAG-181B Conversational Tagalog
54.00 hrs lecture
Units: 3.00
Prerequisite: TAG-181A
Accepted For Credit: CSU
This course is a continuation of Tagalog 181A with an emphasis on the structure of the Filipino language, building vocabulary and an increased understanding of the Filipino culture. (GC)

THEATRE AND DANCE

Division: Arts and Social Sciences

TD-100 Survey of the Arts
54.00 hrs lecture
Units: 3.00
Cross-referenced Course: ART-100, IS-100, MUS-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. The course is taught by three instructors, one from each discipline. (GR)

TD-102 Introduction to Theatre Appreciation
36.00 hrs lecture, 54.00 hrs lab
Units: 3.00
Advisory: TD-100
Accepted For Credit: CSU & UC
This course is a study of the combined elements of contemporary theatre through examination of audience/performer relationships and the organization of support personnel. The focus is on current and classical plays with special emphasis on dramatic analysis, cultural significance, and critical thinking. Mandatory attendance is required at selected Bay Area theatres at students’ expense. Repeatable = 2 times (GC)

TD-107 History of Film
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 class examines the impact of film on our lives and history. Students will review films, discuss, and analyze techniques used. (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 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-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 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, Viola Spolin, etc. Students will apply these principles to their scene work, improvisation, and workshop exercises, and evaluate their progress and that of their classmates. Repeatable = 2 times (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-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 gained in the production and technique classes. (GC)

TD-117A1  Audition/Portfolio Preparation
18.00 hrs lecture, 27.00 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 (GR)

TD-117A2  Audition/Portfolio Preparation
27.00 hrs lecture, 27.00 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 level dance performance techniques. 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-120A4  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 performance and technical roles in a repertory company. There will be a variety of plays presented for public performance. 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-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 experience. 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. The class also supports the Theatre Technology students to do the same. 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 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-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-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. 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 (GR)

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 featured role or chorus. 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 (GR)

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
Prerequisite: TD-141A
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
This class continues the training in the rudiments of classical ballet for the intermediate level student. The students will further develop the technical skills to perform intermediate-level choreography. Ballet II terminology will be covered. Repeatable = 3 times (GC)

TD-142A 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)

TD-142B Intermediate 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 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-142C Advanced Jazz Dance
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Accepted For Credit: CSU & UC
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-143A Introduction to Tap
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
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-143B Intermediate Tap
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Advisory: Medical check within last year
Accepted For Credit: CSU & UC
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-143C Advanced Tap Dance
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Accepted For Credit: CSU & UC
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-144A Introduction to Modern 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 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-144B Intermediate Modern Dance
18.00 hrs lecture, 54.00 hrs lab
Units: 2.00
Accepted For Credit: CSU & UC
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-145A2 Introduction to Ballroom Dance
36.00 hrs lab
Units: 0.50
Advisory: TD-100
Accepted For Credit: CSU
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-145B2 Intermediate Ballroom Dance
36.00 hrs lab
Units: 0.50
Advisory: TD-100; TD-145A2, TD-145A3, or TD-145A4
Accepted For Credit: CSU
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-146L Open Dance Lab
36.00 hrs lecture
Units: 0.50
Corequisite: Student must be concurrently enrolled in an Ohlone dance class
Accepted For Credit: CSU
The student will have supervised and tutored studio time to perfect skills and techniques learned in a concurrently enrolled dance class. Repeatable = 3 times (GR)

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-148A2 Introduction to Hip Hop
36.00 hrs lab
Units: 0.50
Advisory: Medical check within last year
Accepted For Credit: CSU
Students will learn basic skills of hip hop dance with emphasis on creative expression, strength, coordination, and rhythmic style. 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-148B2 Intermediate Hip Hop
36.00 hrs lab
Units: 0.50
Prerequisite: TD-148A2 or TD-148A3
Accepted For Credit: CSU
Students will learn, at an intermediate level, skills of hip hop dance with emphasis on creative expression, strength, coordination, rhythmic style, and improvisation. Repeatable = 3 times (GR)

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, costume, and sound. Repeatable = 3 times (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
Advisory: TD-150
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  
27.00 hrs lab  
Units: 0.50  
Accepted For Credit: CSU  
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-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: TD-152 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-175  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, Pro Tools, 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 and 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-180  Make a Movie  
162.00 hrs lab  
Units: 3.00  
Accepted For Credit: CSU  
In this course students will participate in the production of independent films. The positions for students include both talent and technical operations. Repeatable = 2 times (GR)

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: 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)

TD-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)

TD-195A3  Work Experience Education – Vocational  
225.00 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)

TD-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)
WORK EXPERIENCE EDUCATION
Division: Business, Technology, and Learning Resources

WEX-185A1 General 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 any 195 course concurrently. Requires a minimum of 75 hours of paid work or 60 hours of volunteer work. Accepted For Credit: CSU

This course offers participants the ability to engage in work-based learning while enrolled in school to gain employment experience. Through a set of learning objectives established by the student, supervisor, and instructor, students shall enhance their career awareness and expand their understanding of the skills required to be successful in the workplace. This work-based learning experience will promote a better understanding of the relationship between formal education and job success. Repeatable = 3 times for a maximum of 6 units (GC)

WEX-185A2 General 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 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. Requires a minimum of 150 hours of paid work or 120 hours of volunteer work. Accepted For Credit: CSU

This course offers participants the ability to engage in work-based learning while enrolled in school to gain employment experience. Through a set of learning objectives established by the student, supervisor, and instructor, students shall enhance their career awareness and expand their understanding of the skills required to be successful in the workplace. This work-based learning experience will promote a better understanding of the relationship between formal education and job success. Repeatable = 3 times for a maximum of 6 units (GC)

WEX-185A3 General 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 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. Requires a minimum of 225 hours of paid work or 180 hours of volunteer work. Accepted For Credit: CSU

This course offers participants the ability to engage in work-based learning while enrolled in school to gain employment experience. Through a set of learning objectives established by the student, supervisor, and instructor, students shall enhance their career awareness and expand their understanding of the skills required to be successful in the workplace. This work-based learning experience will promote a better understanding of the relationship between formal education and job success. Repeatable = 3 times for a maximum of 6 units (GC)

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

This course, known as Occupational Work Experience Education, offers participants the ability to engage in work-based learning related to their college major and/or occupational goal. Through a set of learning objectives established by the student, supervisor, and instructor, students shall enhance their career awareness and expand their understanding of the skills required to be successful in the workplace. This work-based learning experience will promote a better understanding of the relationship between formal education and job success. Repeatable = 3 times in a series to a maximum of 16 units (GC)
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 3 WEX units per semester for a total of 6 WEX-195 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. Requires a minimum of 150 hours of paid work or 120 hours of volunteer work.
Accepted For Credit: CSU

This course, known as Occupational Work Experience Education, offers participants the ability to engage in work-based learning related to their college major and/or occupational goal. Through a set of learning objectives established by the student, supervisor, and instructor, students shall enhance their career awareness and expand their understanding of the skills required to be successful in the workplace. This work-based learning experience will promote a better understanding of the relationship between formal education and job success. Repeatable = 3 times in series to a maximum of 16 units (GC)

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 3 WEX units per semester for a total of 6 WEX-195 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. Requires a minimum of 225 hours of paid work or 180 hours of volunteer work.
Accepted For Credit: CSU

This course, known as Occupational Work Experience Education, offers participants the ability to engage in work-based learning related to their college major and/or occupational goal. Through a set of learning objectives established by the student, supervisor, and instructor, students shall enhance their career awareness and expand their understanding of the skills required to be successful in the workplace. This work-based learning experience will promote a better understanding of the relationship between formal education and job success. Repeatable = 3 times in series to a maximum of 16 units (GC)

WEX-195A4  Occupational Work Experience Education
300.00 hrs lab
Units: 4.00
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-195 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. Requires a minimum of 300 hours of paid work or 240 hours of volunteer work.
Accepted For Credit: CSU

This course, known as Occupational Work Experience Education, offers participants the ability to engage in work-based learning related to their college major and/or occupational goal. Through a set of learning objectives established by the student, supervisor, and instructor, students shall enhance their career awareness and expand their understanding of the skills required to be successful in the workplace. This work-based learning experience will promote a better understanding of the relationship between formal education and job success. Repeatable = 3 times in series to a maximum of 16 units (GC)

Did you know???
In 2010-2011, the California Community College system transferred more than 112,000 students to four-year institutions (public, private, in-state, and out-of-state). The California State University (CSU) system continues as the most frequent transfer destination for community college students with the enrollment of almost 57,000 students from the community colleges. Nearly 16,000 community college students enrolled in the University of California (UC) system. This figure continues a six-year trend of increasing transfers to the UC system.
Source: Accountability Reporting for Community Colleges.