CURRICULUM OFFERINGS

The courses offered in this catalog may not be offered every term or every year. If a course is not offered every term you will see a note at the end of the catalog description to tell you when the course is usually offered. Check the Schedule of Classes for our current term offerings.

ACCOUNTING (ACCTG)

ACCTG 1A 5.0 units
Principles of Accounting
5.6 hours lecture
Recommended Preparation: ACCTG 200A or one year of bookkeeping.
Grading: letter grade

The course presents the study of methods and techniques used in analyzing, recording and summarizing those procedures used in preparing a balance sheet along with the statements of income, retained earnings and cash flow for a corporation. Further, this course describes and illustrates financial accounting principles including classification of accounting activities, recording of financial transactions, along with the presentation of the four basic financial statements for internal and external users with an emphasis on the corporate form business entity.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ACCTG 1B 5.0 units
Principles of Accounting
5.6 hours lecture
Prerequisite: ACCTG 1A
Grading: letter grade

Topics in this course include accounting theory and practice for manufacturing, departmental, and cost accounting techniques; performance evaluation; profit reporting and analysis; interpretation of financial statements and budgets; product pricing and performance evaluation; capital investment analysis; and business ethics. This course provides students with information and techniques used by management in evaluating the daily operations and related costs of a business, in planning future operations, making decisions, and developing overall business strategies.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ACCTG 200A 3.0 units
Introduction to Accounting
3.4 hours lecture
Grading: letter grade

This course provides a general overview and understanding of the accounting principles for a business enterprise, with a focus on those business activities for both service and merchandising businesses, using a double-entry system and the accrual method for recording financial transactions. The course will introduce students to key accounting terms, the accounting equation and related impact of business accounting transactions, the integration of the business transactions into the financial statement framework, along with an understanding of cash activities, receivables, inventories, fixed assets, liabilities, shareholders’ equity, revenues and expenses. The course will cover the primary financial statements utilized by a business, including financial statement analysis, and will give students a fundamental foundation of accounting and its importance to a business, a general understanding of the activities of a business and the financial reporting of a business.

ACCTG 205 3.0 units
Fundamentals of Tax
3.4 hours lecture
Grading: letter grade
Students will learn to prepare federal income tax returns for individuals. This course emphasizes the practical use of tax forms and supporting schedules and also reflects the most recent changes in the Internal Revenue Code.

ACCTG 228 2.0 units
Computerized Gen Ledger Account Systems
2.3 hours lecture, 1.1 hours laboratory
Prerequisite: ACCTG 1A or ACCTG 200A
Grading: letter grade
This course provides students with experience using a commercial general ledger accounting program.

ACCTG 229 3.0 units
Spreadsheet Accounting
3.4 hours lecture, 1.1 hours laboratory
Prerequisite: ACCTG 1A
Recommended Preparation: Working knowledge of Microsoft Excel or COSA 15AD.
Grading: letter grade or pass/no pass
The course will cover the functions and features of Excel most commonly used in Accounting/Finance applications. Many of the routine manual functions studied in the Financial Accounting course will be automated by using Microsoft Excel. Instruction will focus on preparing financial Excel models and templates that are functional, flexible, and easily maintainable. Refresher lectures will be presented on the Accounting topics specific to the Excel modeling assignments.

ACCTG 230 2.0 units
Quickbooks Accounting
2.3 hours lecture
Recommended Preparation: General familiarity and use of a PC
Grading: letter grade or pass/no pass
Intro to basic small business accounting concepts and to a complete accounting software system. Provides hands-on exposure to the major features of the Quickbooks accounting software accompanied by instruction in the accounting concepts being employed.

ADMINISTRATION OF JUSTICE (ADJUS)

ADJUS 2 3.0 units
Introduction Administration of Justice
3.4 hours lecture
Grading: letter grade
The history and philosophy of the criminal justice process and its relationship to our dual court system is discussed. The role relationship and inter-dependency of the Criminal Justice System components is reviewed. The historical concepts of criminality, punishment and rehabilitation are compared and contrasted. The significance of professionalism and its impact upon the relationship between the community and agents of the Criminal Justice System is emphasized.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.
Courses of Instruction

ADJUS 3 3.0 units
Introduction to Criminal Procedures
3.4 hours lecture
Grading: letter grade
This course covers legal processes from pre-arrest through trial, sentencing and correctional procedures. The course will review the history of case and common law, conceptual interpretations of law as reflected in court decisions, case law methodology and case research as the decisions impact upon the procedures of the justice system.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADJUS 4 3.0 units
Criminal Law
3.4 hours lecture
Grading: letter grade
This course offers an analysis of the doctrines of criminal liability in the United States and the classification of crimes against persons, property, morals and public welfare. Special emphasis is placed on the classification of crime, the general elements of crime, the definitions of common and statutory law and the nature of acceptable evidence. This course utilizes case law and case studies to introduce students to criminal law. The completion of this course offers a foundation upon which upper-division criminal justice courses will build. The course will also include some limited discussion of prosecution and defense decision making, criminal culpability and defenses to crimes.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ADJUS 5 3.0 units
Community and Human Relations
3.4 hours lecture
Grading: letter grade
The course is designed to explore the changing role and relationship between the agents of the Criminal Justice System and the community. Human behavior, cultural diversity, communication skills and the discretionary enforcement of the law are discussed in conjunction with the need to maintain community trust, faith and confidence. Styles of policing and their impact upon communities and citizen support and cooperation are also discussed in detail.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ADJUS 6 3.0 units
Introduction to Evidence
3.4 hours lecture
Grading: letter grade
The course covers the historical development, philosophy and constitutional basis of evidence, constitutional and procedural considerations affecting arrest, search and seizure, kinds and degrees of evidence and rules governing admissibility. Judicial decisions interpreting case studies of individual rights are also evaluated from a conceptual perspective.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADJUS 8 3.0 units
Introduction to Investigation
3.4 hours lecture
Grading: letter grade
The course covers fundamentals of investigation, techniques of crime scene search, recording and documentation, and collection and preservation of physical evidence. Modus operandi processes, sources of information, suspect interviewing and interrogation and follow-up investigation are additionally covered.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADJUS 10 3.0 units
Writing for Criminal Justice
3.4 hours lecture
Grading: letter grade
The course focus is developing effective communication skills in writing for the Criminal Justice System. The elements of effective report writing, including grammar, punctuation and spelling are emphasized. The importance of crime scene interviewing, recording and documentation are covered relating to the preparation of report writing and courtroom testimony.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADJUS 14 3.0 units
Juvenile Law and Procedures
3.4 hours lecture
Grading: letter grade
The course focus is juvenile justice and delinquency in America and how our Juvenile Justice System deals with juvenile offenders. Juvenile delinquency prevention and repression techniques are also covered. Delinquency diagnosis and referral is reviewed in conjunction with the availability of community resources to combat the problem. Juvenile law and related court procedures are also discussed.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADJUS 16 3.0 units
Vice, Narcotics and Organized Crime
3.4 hours lecture
Grading: letter grade
This course will focus on the relationship between organized crime and the community. Covert criminal activities and their impact upon our social structure is also reviewed. Related criminal activities to organized crime, including vice, narcotics and white collar crime and their political influence on our legal system, are also discussed.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADJUS 17 3.0 units
Computer Use in Criminal Justice
2.3 hours lecture, 3.4 hours laboratory
Grading: letter grade
The course focus is communications technology in the Criminal Justice System. Computer operations, wireless communications and geographic systems are emphasized. Ethical, legal and privacy issues that impact communications technology will also be covered. The computer assisted dispatch system, terminology, concepts and technology will also be included in this course.
Transfer Status: Transferable to CSU Only; see counselor for limitations.
Courses of Instruction

ADJUS 18  3.0 units
Police Field Operations
3.4 hours lecture
Grading: letter grade
Through the use of classroom lecture and scenario training this course covers policing in America. Specific areas to include, patrol, traffic, preliminary investigations, interviewing and interrogation, search and seizure, civil and domestic disturbances and requests for community service. Most importantly, it focuses on the relationship between citizens in the community and the police who serve them.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADJUS 19  3.0 units
Fingerprint Classif & Identification
3.4 hours lecture
Grading: letter grade
This course provides an introduction to the science of fingerprint pattern recognition, comparison and identification. This course focuses on fingerprints of record, with an emphasis on the history and application of science to fingerprints and their role in the forensic domain. This is an interactive course where students will also participate in recording, developing, and comparing fingerprints.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADJUS 20  3.0 units
Introduction to Corrections
3.4 hours lecture
Grading: letter grade
The course focus is a survey of the correctional science field. The early history and development of corrections is reviewed. Correctional theory and practice are discussed relative to potential causes of criminal behavior. Additionally, the criminal justice system processes relating to incarceration, probation and parole and their influence upon the offender’s behavior and career opportunities are evaluated.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADJUS 40  3.0 units
Street Gangs and Law Enforcement
3.4 hours lecture
Grading: letter grade
This course provides an overview of the “Gang” problem in society. The historical perspective and cultural and societal dynamics of gang involvement will be reviewed. Law enforcement tactics, court injunctions, prosecution, intelligence gathering and gang intervention are all emphasized.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADJUS 45  3.0 units
Drug Abuse and Law Enforcement
3.4 hours lecture
Grading: letter grade
This course is designed to create an awareness of drug abuse in society. The historical perspective of controlled substance abuse is reviewed. Classification of drugs, symptomatic indicators of drug abuse and addiction are emphasized. The relationship between drug abuse, crime and law enforcement intervention is further discussed. Controlled substance abuse and the tactical response of the Criminal Justice System is also covered.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADJUS 61  1.0 unit
Defensive Tactics
0.8 hour lecture, 1.5 hours laboratory
Grading: letter grade
This course is designed to increase the knowledge, tactics and personal skill in the use of weaponless defense. Holds, restraints, take-downs and come-a-longs are covered to defend against combative individuals with dangerous weapons. Disarming methods, the use of the baton and transportation of those in custody are also emphasized.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADJUS 62  1.0 unit
Firearms
3.4 hours laboratory
Prerequisite: ADJUS 2 and the student must successfully complete a Department of Justice, “Live Scan” background criminal history check and meet the agency requirements for background clearance.
Grading: letter grade
This course provides a background on Federal, State and local authority relating to the use of force in gaining compliance to the law. It also explains the “use of force paradigm” and the legal and moral aspects of the use of deadly force. Students develop basic firearms competence and proper safety procedures. Students also become familiar with special weapons, types of ammunition and protective devices used in law enforcement.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADJUS 253  3.0 units
Understanding Domestic Violence
3.4 hours lecture
Grading: letter grade
The course offers insights into the causes, behaviors and problems associated with domestic violence. It describes and investigates the reasons behind violent behavior and the toll taken on victims. Laws relating to domestic abuse, and mandated reporter’s responsibilities, alternative recommendations to abusive relationships and various sources for assistance are covered.

ADJUS 255  3.0 units
Introduction to Forensics
3.4 hours lecture
Grading: letter grade
This course is an introduction to multiple contemporary scientific methodologies utilized in the development of criminal case investigations. This class is appropriate to administration of justice majors, and others with a specific interest in forensic methods.

ADJUS 269  3.0 units
Pre-Employment Preparation for Law Enforcement
3.4 hours lecture
Grading: letter grade
Students contemplating a future within the various components of the Criminal Justice System will be provided with both a practical and realistic opportunity to gain insight and understanding into the initial
Courses of Instruction

**ADVANCED TRANSPORTATION TECHNOLOGY (ATT)**

**ATT 480**  
Intro to Hybrid & Electric Vehicles  
3.5 units  
3.4 hours lecture, 1.7 hours laboratory  
Grading: letter grade  
Formerly AMECH 480. This course is a hands-on approach to the world of Hybrid, Fuel Cell and Electric powered vehicles. Discover how this new technology works as it replaces existing fossil fueled engines. Examine existing technologies, conversion processes, testing, assembly, operation, and maintenance of Hybrid-Electric, Fuel Cell and Battery Powered electric vehicles. Appropriate safety related instruction is included.

**ATT 481**  
Advanced Hybrid & Electric Vehicles  
3.5 units  
3.4 hours lecture, 1.7 hours laboratory  
Grading: letter grade  
Formerly AMECH 481. This course furthers the student’s skills in electric vehicles (EVs) and hybrid electric vehicles (HEVs) and provides an introduction to advanced EV designs and propulsion systems. The students will work with hybrid, Fuel Cells & A/C drive systems in advanced design electric vehicles. The course includes: EV design and construction; the testing, assembly, operation and maintenance of EVs; the influence of aerodynamic design; advanced technology batteries and intelligent charging systems; hydrogen fuel cell technology and alternative drive systems. Appropriate safety related instruction will be included in each segment.

**ATT 482**  
Heavy Duty Hybrid & Electric Vehicles  
3.5 units  
3.4 hours lecture, 1.7 hours laboratory  
Grading: letter grade  
This course introduces the students to heavy-duty electric vehicles (HD-EVs) and heavy-duty hybrid electric vehicles (HD-HEVs) and provides an introduction to advanced HD-EV designs and propulsion systems. The students will work with heavy-duty hybrids, Fuel Cells & A/C drive systems in advanced design heavy-duty electric vehicles. The course includes: HD-EV design and construction; the testing, assembly, operation and maintenance of HD-EVs; the influence of aerodynamic design; advanced technology batteries, super-capacitors, intelligent charging systems; hydrogen fuel cell technology and alternative HD-EV drive systems. Appropriate safety related instruction will be included in each segment.

**ATT 483**  
Advanced Hybrid Diagnosis & Repair  
3.5 units  
3.4 hours lecture, 1.7 hours laboratory  
Grading: letter grade  
Formerly AMECH 483. This course increases the student’s skill and knowledge and provides updated information in hybrid-electric vehicle technology. The course emphasizes OEM (original equipment manufacturer) hybrid vehicle diagnosis and repair utilizing OEM diagnosis tools and methodology. Appropriate safety related instructions will be included in each segment.

**ATT 490**  
Introduction to Alternative Fuels  
3.5 units  
3.4 hours lecture, 1.7 hours laboratory  
Grading: letter grade  
Formerly AMECH 490. Alternative fueled vehicles are extensively used in fleet service. This NATEF certified course covers theory of operation, installation, testing, trouble-shooting and repair of gaseous fuels with a focus on natural gas. Includes both dedicated and after-market systems. Gasoline and diesel powered vehicles are discussed with an emphasis on computer-controlled fuel injection. Current trends in the industry and preparation for taking the ASE (Automotive Service Excellence) F1 test in compressed natural gas systems is included.

**ATT 491**  
Heavy Duty Alternative Fuels  
3.5 units  
3.4 hours lecture, 1.7 hours laboratory  
Grading: letter grade  
Formerly AMECH 491. Heavy duty/diesel alternative fueled vehicles with an emphasis on natural gas. Includes the theory of operation, installation, testing, trouble-shooting and repair of alternatively-fueled heavy duty vehicles with both dedicated and after-market systems. Lab intensive training in Natural Gas spark fired vehicles emphasizing computer controlled fuel management. Current trends in the industry and preparation for taking the ASE (Automotive Service Excellence) F1 test are included.

**ATT 492**  
HD Alt Fuel Engine Diagnosis & Repair  
3.5 units  
3.4 hours lecture, 1.7 hours laboratory  
Grading: letter grade  
Formerly AMECH 492. Covers OEM and aftermarket spark ignited, alternatively-fueled truck and bus engines with an emphasis on computer controlled fuel management. The theory of operation, conversion, trouble-shooting and maintenance of alternatively-fueled heavy duty engines, emphasizing natural gas and computer controlled fuel management systems. Includes both factory and after-market dedicated systems. Current trends in the industry and preparation for taking the ASE (Automotive Service Excellence) F1 test are included.

**ATT 493**  
Alt Fuels Conversion, Diagnosis & Repair  
3.5 units  
3.4 hours lecture, 1.7 hours laboratory  
Grading: letter grade  
Formerly AMECH 493. Covers diagnosis and repair of light and medium duty alternative fuel vehicles including aftermarket and OEM systems. The theory of installation, regulations and certification, manufacturing techniques and trouble-shooting of alternatively-fueled vehicles, emphasizing natural gas and computer controlled fuel management systems. Current trends in the industry and preparation for taking the ASE (Automotive Service Excellence) F1 test are included.
Courses of Instruction

**ATT 494** 3.5 units
**Heavy Duty LNG Fuel Systems**
3.4 hours lecture, 1.7 hours laboratory
Grading: letter grade

This course concentrates on the diagnosis and repair of Liquefied Natural Gas (LNG) fuel systems as used in Heavy Duty applications. The cryogenic aspects of fuel storage and delivery to the engine will be discussed in both Pilot and Spark Ignited applications. The proper safe handling of LNG fuel will also be emphasized and included in the instruction.

**ATT 801** 2.0 units
**Quick Service Tech-Lubrication Service**
2.3 hours lecture, 0.2 hour laboratory
Grading: pass/no pass

Formerly AMECH 801. Learning to be a Quick-Service Lubrication Technician is one of the fastest ways to a job in automotive technology. This one-week course prepares you to enter this field immediately with skills needed for an entry-level job doing oil changes, lubrication, under hood services and vehicle inspections. Job seeking skills are included. This course is also excellent for the do-it-yourselfer who wants to learn how professionals do a lubrication service.

**ATT 802** 2.0 units
**Quick Service Tech-Tire Service**
2.3 hours lecture, 0.2 hour laboratory
Grading: pass/no pass

Formerly AMECH 802. Learning to be a Quick Service Tire Technician is one of the fastest ways to a job in automotive technology. This one-week course prepares you to enter this field immediately with skills needed for an entry-level job doing tire rotation, repair, replacement, balancing and vehicle inspections. Job seeking skills are included. This course is also excellent for the do-it-yourselfer who wants to learn how professionals do tire service.

**ATT 803** 2.0 units
**Quick Service Tech-Brake Inspection**
2.3 hours lecture, 0.2 hour laboratory
Grading: pass/no pass

Formerly AMECH 803. Learning to be a Quick Service Brake Inspection Technician is one of the fastest ways to a job in automotive technology. This one-week course prepares you to enter this field immediately with skills needed for an entry-level job doing brake safety inspections and vehicle inspections. Job seeking skills are included. This course is also excellent for the do-it-yourselfer who wants to learn how professionals do brake service.

**AIR CONDITIONING AND REFRIGERATION (AC_R)**

**AC_R 211** 10.0 units
**Air Condition/Refrigeration Fundamentals**
5.6 hours lecture, 16.9 hours laboratory, 0.3 hour supplemental learning
Grading: letter grade or pass/no pass

This is the beginning course of a four-semester program for persons to become technicians in industrial and/or commercial air conditioning and refrigeration. This course covers shop safety practices, HVAC terminology, pressure/temperature relationships, heat transfer, analysis of components and complete systems, employee and employer relationship. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course’s content.

**AC_R 212** 10.0 units
**Electrical Theory/Component Applications**
5.6 hours lecture, 16.9 hours laboratory, 0.3 hour supplemental learning
Grading: letter grade or pass/no pass

This course covers electrical systems found in heating, refrigeration and air conditioning installations and equipment. Also covered are formulas used in electrical theory, the interpretation of schematic wiring diagrams, electrical components and applications. This course also covers the theory and lab work associated with motors, thermostats, controls, and circuit analysis. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course’s content.

**AC_R 213** 10.0 units
**Heating, Psychrometrics & Heat Loads**
5.6 hours lecture, 16.9 hours laboratory, 0.3 hour supplemental learning
Prerequisite: AC_R 211 or AC_R 212
Grading: letter grade or pass/no pass

This course discusses comfort as it relates to the human body, psychrometrics, gas heating, and electric heating. The psychrometric chart is covered in detail. Total heat and building air conditioning specifications, including heating and cooling load calculations are discussed. Other topics include the forced air system, types of fans and fan drives, duct materials and fastening devices, and sizing duct and measuring air movement for balancing. Operating, safety, and electronic controls for air conditioning are covered. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course’s content.

**AC_R 214** 10.0 units
**Troubleshoot Total Comfort Systems**
5.6 hours lecture, 16.9 hours laboratory, 0.3 hour supplemental learning
Prerequisite: AC_R 213
Grading: letter grade or pass/no pass

This is an advanced course that requires knowledge of troubleshooting of both electrical and mechanical equipment, electrical, electronic, and pneumatic controls. This course covers the complete electrical and mechanical design, service and troubleshooting of a commercial/industrial facility. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course’s content.

**AC_R 220** 3.0 units
**Refrigeration Fundamentals**
2.8 hours lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass

This course is a basic study of vapor compression refrigeration cycle and system components. It includes shop safety practices, terminology, pressure/temperature relations, and heat transfer. System dehydration, recovery techniques, charging of refrigerants will also be covered. The material in this course will reflect the current Environmental Protection Agency (EPA) requirements of Section 608 of the Clean Air Act of 1990.
Courses of Instruction

AC_R 223  3.0 units
Gas Heating Fundamentals
2.8 hours lecture, 1.7 hours laboratory
Recommended Preparation: AC_R 220
Grading: letter grade or pass/no pass
This course will cover the theory, operation and application of natural gas heating systems used in residential and commercial heating installations including the properties of fuel gases, gas combustion, furnace construction pilot proving devices and troubleshooting systems.

AC_R 226  2.0 units
Air Properties and Measurement
2.3 hours lecture
Recommended Preparation: AC_R 220
Grading: letter grade or pass/no pass
This course investigates the air side operating theory and application of comfort cooling systems. This course will include the psychometrics that will include the measurement and air distribution through duct design and component identification.

AC_R 229  3.0 units
Heat Pumps
2.8 hours lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass
This course will cover the theory, operation and application of heat pump systems used in residential and commercial heating and cooling installations. The heat pump refrigeration cycle, reversing valves, defrost methods, supplemental heat, airflow and thermostats will also be covered.

AC_R 230  3.0 units
Electrical Fundamentals
2.8 hours lecture, 1.7 hours laboratory
Recommended Preparation: AC_R 220
Grading: letter grade or pass/no pass
This course includes the basic concepts of electrical principles as used in air conditioning and refrigeration. The development of schematic diagrams, the application of electrical components, the electrical sequence of operation, and troubleshooting of electrical systems will be covered.

AC_R 233  3.0 units
Commercial Electrical for HVAC
2.8 hours lecture, 1.7 hours laboratory
Prerequisite: AC_R 230
Grading: letter grade or pass/no pass
This course covers electrical systems found in commercial heating, refrigeration and air conditioning systems. It will also include the topics of time clocks, defrost systems, three phase transformers, three phase motors, timers, sequencers, starting methods and troubleshooting of commercial electrical systems.

AC_R 236A  2.5 units
Automobile Air Conditioning
2.3 hours lecture, 1.7 hours laboratory
Recommended Preparation: AC_R 220 or AC_R 211 or AC_R 450A
Grading: letter grade or pass/no pass
This course covers tools, equipment, refrigeration fundamentals, electrical systems, air distribution, installation and repair of automobile air conditioning. System dehydration, recovery techniques, charging of refrigerants will also be covered. The material in this course reflects the current Environmental Protection Agency (EPA) requirements of Section 609 of the Clean Air Act of 1990.

AC_R 240  4.0 units
Advanced Air Conditioning
3.4 hours lecture, 3.4 hours laboratory
Prerequisite: AC_R 220
Grading: letter grade or pass/no pass
This is an advanced course that requires knowledge of air conditioning mechanical and electrical systems. This course will cover the operation, maintenance and troubleshooting of commercial and industrial HVAC systems. This course also covers theory and practices associated with chilled water systems, absorption chilled water systems, cooling towers and pumps. Equipment efficiency rating, EER and SEER are also covered.

AC_R 260  3.0 units
Solar Hot Water Heating
2.8 hours lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass
This course is a basic study on the essentials of installing code compliant solar thermal systems including Solar Hot Water and Solar Pool Heating. This course will cover the basic concepts, system configurations, guidelines and installation techniques involved with solar thermal systems. This course will consist of lecture, demonstration and lab activities. This course is designed for students who currently work in or plan to be employed in the solar hot water industry.

AC_R 400A  3.0 units
Uniform Mechanical Code I
3.4 hours lecture
Grading: letter grade or pass/no pass
This course will cover the purpose of the Uniform Mechanical Code. It will provide information about the complete requirements for the installation and maintenance of residential heating, ventilating, cooling and refrigeration systems.

AC_R 421A  3.0 units
Elect Controls for Refrig/Air Cond/Heat
3.4 hours lecture
Grading: letter grade or pass/no pass
This course covers the theoretical and practical principles involving the control of air conditioning and refrigeration equipment. Topics covered are the selection, application and maintenance of automatic controls for heating, ventilation and cooling systems.

AC_R 421B  3.0 units
Pneumatic Controls for HVAC
3.4 hours lecture
Prerequisite: AC_R 421A
Grading: letter grade or pass/no pass
This is an advanced course that requires knowledge of basic air conditioning and refrigeration controls. This course covers the selection, application and maintenance of automatic controls found the large commercial/industrial facilities.
Courses of Instruction

**AC_R 422** 3.0 units
Air Conditioning System Design and Installation
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is an introduction to estimating and selection of equipment used in residential, commercial and industrial air conditioning, heating and ventilating systems.

**AC_R 450A** 5.0 units
Transport Refrigeration
4.5 hours lecture, 3.4 hours laboratory
Grading: letter grade
This course is an introduction to transport refrigeration. This course covers the application, function, power supply, basic operation, safety and troubleshooting of mechanical and electrical components of transport refrigeration equipment.

**AH 60** 3.0 units
Medical Terminology
3.4 hours lecture, 0.2 hour supplemental learning
Grading: letter grade
This course is designed to develop a comprehensive medical vocabulary. Emphasis will be placed on spelling, definitions, and pronunciation of terms related to the body systems and medical specialties. In order to assist students with the challenges of the course content, students are required to complete 3 hours of Supplemental Learning Assistance activities in a Multidisciplinary Success Center over the course of the semester.

**AH 61** 2.0 units
Integration of Patient Care
1.1 hours lecture, 3.4 hours laboratory
Grading: letter grade
This course is designed to develop the fundamental aspects of interpersonal relations as related to the health care professions, as well as, basic skills in selected patient care procedures. This course is designed for students in the Diagnostic Medical Imaging Program.

**AH 220** 2.0 units
Phlebotomy
1.7 hours lecture, 1.7 hours laboratory
Grading: pass/no pass
This course provides instruction in the principles and practices of blood specimen collection as required by the health care regulations in California. Completion of the course meets the following requirements: 1) complete didactic and partial practice to qualify for the examination for Certified Phlebotomy Technician I as defined by the California Society of Medical Assistants; 2) complete didactic and partial practice for Medical Assistant certification as defined by the California Society of Medical Assistants; 3) complete didactic and partial practice for Blood Withdrawal certificate as defined by the Board of Vocational Nursing and Psychiatric Technicians.

**AH 223** 1.0 unit
Phlebotomy Practicum
3.4 hours laboratory
Prerequisite: AH 220
Grading: pass/no pass
Formerly AH 220AD. This course provides the clinical laboratory experience in phlebotomy required to qualify for the examination of Certified Phlebotomy Technician I. This course and AH 220 are approved as a phlebotomy program by the State of California Department of Health Services Field Laboratory Services.

**AH 225** 0.5 unit
Basic Arrhythmia Recognition
0.6 hour lecture
Prerequisite: ADN 11B and ADN 11BL or Licensed RN, VN 255 or VN 265 or Licensed VN, EMT 251 and EMT 251L or Licensed EMT
Grading: pass/no pass
This course provides instruction in the interpretation of the single lead electrocardiogram. This course includes the relationship between cardiac physiology and the development of cardiac rhythm, as well as the correlation of electrocardiogram status to patient condition and expected treatment. This course is designed for health care workers or students interested in the care of patients with cardiac problems. Successful completion prepares the student for the ECG component of the American Heart Association Advanced Cardiac Life Support class. This course would be suitable for health care students and registered nurses, vocational nurses, radiologic technologists and emergency medical technicians.

**AH 276** 1.0 unit
Health Care Law
1.1 hours lecture
Grading: letter grade
This course is designed to develop a basic understanding of health care law, medical ethics and how they relate to health care providers.

**AH 285** 1.0 unit
Health Care CPR and Vital Signs
1.1 hours lecture, 0.6 hour laboratory
Grading: letter grade
This course is designed for students entering a healthcare field. Topics covered include Health Care provider CPR, including Automatic Defibrillator training, and assessment of vital signs and their significance in patient care.

**ANAT 1** 4.0 units
Human Anatomy
3.4 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
This course is the study of the structure of the human body. This course provides the basic knowledge and lab skills to meet the needs of pre-nursing, physical
Courses of Instruction

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<td>Anatomy &amp; Physiology</td>
<td>5.0</td>
<td>4.5 hours lecture, 3.4 hours laboratory, 0.2 hour supplemental learning. This course is an introduction to the study of the structures and functions of the human body. Knowledge learned in lecture is reinforced by laboratory experiments and dissections. This course is designed for students in certain health related majors as well as students not majoring in the life sciences. Dissection of the fetal pig is required. Students are required to complete 4 hours of Supplemental Learning Assistance activities in designated Success Centers. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>ANTHR 1</td>
<td>Physical Anthropology</td>
<td>3.0</td>
<td>3.4 hours lecture. This course introduces the concepts, methods of inquiry, and theory of biological evolution and their application to the human species. Issues and topics will include the principles of genetics and evolution, human variation and biocultural adaptations, comparative primate anatomy and behavior, and the fossil evidence for human evolution. The philosophy of science and the scientific method serve as foundations to the course. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>ANTHR 1H</td>
<td>Honors Physical Anthropology</td>
<td>3.0</td>
<td>3.4 hours lecture. Prerequisite: Qualification for the Honors Program. This course focuses on demonstrated understanding of the evolutionary physical characteristics that distinguish humans from other life forms. Major topics included in the course are human genetics, human physical variation, primatology, the origin and evolution of humans, and the synthetic theory of evolution. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>ANTHR 2</td>
<td>Cultural Anthropology</td>
<td>3.0</td>
<td>3.4 hours lecture. This course is an introduction to the study of the concepts, theories, and methods used in the comparative study of sociocultural systems. This course includes a comparison of subsistence patterns, social structure, political organization, language, family, kinship, religion, and the arts as practiced by different cultures. It also explores social inequality, ethnicity, and gender and the application of anthropological perspectives to contemporary issues in the midst of culture change. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>ANTHR 2H</td>
<td>Honors Cultural Anthropology</td>
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<td>3.4 hours lecture. Prerequisite: Qualification for the Honors Program. This course is an introduction to the study of the concepts, theories, and methods used in the comparative study of sociocultural systems. This course includes a comparison of subsistence patterns, social structure, political organization, language, family, kinship, religion, and the arts as practiced by different cultures. It also explores social inequality, ethnicity, and gender and the application of anthropological perspectives to contemporary issues in the midst of culture change. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>ANTHR 3</td>
<td>Intro to Archaeology</td>
<td>3.0</td>
<td>3.4 hours lecture. Grading: letter grade or pass/no pass. This course is an introduction to the study of concepts, theories, and methods of anthropological archaeology as well as a review of significant data and models that contribute to knowledge of the human past. The course includes a discussion of the history and interdisciplinary nature of archaeological research; dating techniques and methods of survey, excavation, and analysis; cultural resource management; ethical considerations; and selected cultural sequences. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>ANTHR 3H</td>
<td>Honors Intro to Archaeology</td>
<td>3.0</td>
<td>3.4 hours lecture. Prerequisite: Qualification for the Honors Program. This course is an honors introduction to the study of concepts, theories, and methods of anthropological archaeology as well as a review of significant data and models that contribute to knowledge of the human past. The course includes a discussion of the history and interdisciplinary nature of archaeological research; dating techniques and methods of survey, excavation, and analysis; cultural resource management; ethical considerations; and selected cultural sequences. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>ANTHR 10</td>
<td>Magic, Witchcraft and Religion</td>
<td>3.0</td>
<td>3.4 hours lecture. Grading: letter grade or pass/no pass. This course is a survey of systems of magic, witchcraft and religion from past and present societies around the world. The course examines beliefs and practices in cultural settings with respect to the role of the supernatural in people’s lives. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>ANTHR 20</td>
<td>Archaeology Field Survey Methods</td>
<td>3.0</td>
<td>2.3 hours lecture, 3.4 hours laboratory. Grading: letter grade or pass/no pass. This course will introduce students to archaeological survey methods through lectures and supervised field experience. Instruction will focus on compass reading, topographic map orientation, research design, and...</td>
</tr>
</tbody>
</table>
Courses of Instruction

creating maps using various survey instruments, including a pocket transit, automatic level, and electronic total station.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

ARCHITECTURAL DESIGN (ARCHT)

ARCHT 60 8.0 units
Architectural Design
6.8 hours lecture, 6.8 hours laboratory
Recommended Preparation: One year of high school drafting or DRAFT 201
Grading: letter grade
This is a beginning computer aided drafting (CAD) course that uses the most recent version of AutoCAD and focuses on developing basic architectural skills. The student will develop basic two-dimensional (2D) AutoCAD production drawing skills learning the relationship between plan, section and elevation drawings and use these to produce a preliminary set of production drawings for a simple building. Students learn to solve basic design problems of site design, space relationships, roof shapes and building aesthetics. Alternative solutions to design problems will be explored using freehand sketching and computer generated techniques.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ARCHT 61 4.0 units
Architectural Design
3.4 hours lecture, 3.4 hours laboratory
Recommended Preparation: One year of high school drafting or DRAFT 201
Grading: letter grade
This is a beginning computer aided drafting (CAD) course that uses the most recent version of AutoCAD and focuses on developing basic architectural skills. The student will develop two dimensional (2D) AutoCAD production drawing skills. ARCHT 61 is one half of ARCHT 64, is transferable and leads to a certificate in architectural drafting.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ARCHT 62 4.0 units
Architectural Design
3.4 hours lecture, 3.4 hours laboratory
Prerequisite: ARCHT 61 or DRAFT 201
Grading: letter grade
This is a second semester computer aided drafting course that focuses on the development of basic architectural skills while using AutoCAD software. Students will learn to solve basic design problems of site analysis, space relationships, roof design, building aesthetics and material selection. Alternative solutions to design problems will be explored using the computer and freehand sketching techniques. The student will learn intermediate 2D AutoCAD with an introduction to 3D drawings. (Units and content are one half of ARCHT 65).
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ARCHT 64 8.0 units
Architectural Design
6.8 hours lecture, 6.8 hours laboratory
Prerequisite: ARCHT 60 or ARCHT 62
Grading: letter grade
This is an intermediate level computer aided architecture course for transfer or occupational students. It is a drafting and design course where students will create 2D and 3D architectural designs, 2D construction drawings and build physical and digital models. Students will utilize freehand sketches and the latest 2D and 3D software (i.e. AutoCAD, Sketch-up). Drawings include: site, floor and roof plans, sections, elevations, schedules, foundation plan and limited details. An opportunity to enter a design competition and build a portable structure may exist in the spring semester.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ARCHT 65 4.0 units
Architectural Design
3.4 hours lecture, 3.4 hours laboratory
Prerequisite: ARCHT 62 or ARCHT 60
Grading: letter grade
This is the first semester of two intermediate level architecture courses for the transfer, occupational or returning student. It is a drafting and design course where students will create 2D and 3D architectural designs, 2D construction drawings and build physical models. The student will use sketches and the latest AutoCAD software products. Drawings include: site plan, floor plan(s), roof plan & elevations. (Units and content are one half of ARCHT 64).
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ARCHT 66 4.0 units
Architectural Design
3.4 hours lecture, 3.4 hours laboratory
Prerequisite: ARCHT 65
Grading: letter grade
This is the second semester of two intermediate level architecture courses for the transfer, occupational or returning student. It is a drafting and design course focused on developing further the drawing skills learned in ARCHT 65, with an introduction to 3D drawing systems. Students will create 2D and 3D architectural designs, 2D construction drawings and build digital models utilizing sketches and the latest 2D & 3D software (i.e. AutoCAD, sketch-up). Drawings include: site, floor & roof plans, elevations, sections, schedules, foundation plan and limited details. (Units and content are one half of ARCHT 65).
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ARCHT 70A 8.0 units
Architectural Design
6.8 hours lecture, 6.8 hours laboratory
Prerequisite: ARCHT 64 or ARCHT 66
Grading: letter grade
Formerly ARCHT 70AB. This is an advanced level computer aided architecture course (2 semesters) for transfer or occupational students. It is a drafting and design course that utilizes the latest AutoCAD products, freehand sketching and various 3D software products. Students will create complex 2D and 3D architectural designs, complete 2D building plans and build physical and digital models. Drawings include: architectural, structural, electrical, mechanical and construction
Students will be instructed in the essentials of Revit of parametric Building Information Modeling, BIM, related fields who wish to upgrade their skills in the area employed in architecture, interior design and other. This is an advanced class the third in a series of three.

**Grading:** letter grade or pass/no pass

Prerequisite: ARCHT 231

*3.4 hours lecture, 3.4 hours laboratory*

**ARCHT 232** 4.0 units

**Building Information Modeling, Adv.**

This is an advanced class the third in a series of three aimed at individuals with a drafting background employed in architecture, interior design and other related fields who wish to upgrade their skills in the area of parametric Building Information Modeling, BIM. Students will be instructed in the essentials of Revit Architecture or an equivalent BIM software. Instruction will enable students who have worked with BIM to expand their knowledge in the areas of Conceptual Design and BIM Management and the analysis of a BIM project per applicable Leadership in Energy and Environmental Design requirements, LEED, codes, and national standards.

**Grading:** letter grade

Prerequisite: ARCHT 231

*3.4 hours lecture, 3.4 hours laboratory*

**ARCHT 240** 3.0 units

**Introduction to Green Design**

This course will provide an overview of environmentally responsible design including green and sustainable design application for Interior Designers. Case studies of green building projects will include evaluation of “green” interior finishes and materials, energy efficient lighting design, and water efficiency systems. This course will also provide preparation for the LEED Accredited Professional certification. Field trips will be required.

**Grading:** letter grade

Prerequisite: ARCHT 231

*3.4 hours lecture*

**ARCHT 241** 3.0 units

**Introduction to LEED**

This course will present an overview of LEED (Leadership in Energy and Environmental Design). The LEED rating system will be covered including: Sustainable Sites, Water Efficiency, Energy & Atmosphere, Materials & Resources and Indoor Environmental Quality. This course will provide preparation for the LEED Accredited Professional certification. Field trips will be required.

**Grading:** letter grade

Prerequisite: ARCHT 231

*3.4 hours lecture*

**ARCHT 360M2** 1.5 units

**Architecture Design CAD**

This course is an entry level computer aided drafting (CAD) course that uses the most recent version of CAD. The course focus is on developing basic architectural knowledge and skills. The student will develop fundamental CAD skills and two dimensional (2D) sketch and production drawings. ARCHT 360M1 is one half of ARCHT 61 and leads to a certificate in architectural drafting.

**Grading:** letter grade

Prerequisite: ARCHT 231

*1.1 hours lecture, 2.3 hours laboratory*

**ARCHT 360M1** 1.5 units

**Basic CAD for Architecture**

This is a beginning computer aided drafting (CAD) course that uses the most recent version of CAD. The course focus is on developing basic architectural knowledge and skills. The student will develop fundamental CAD skills and two dimensional (2D) sketch and production drawings. ARCHT 360M1 is one half of ARCHT 61 and leads to a certificate in architectural drafting.

**Grading:** letter grade

Prerequisite: One year of high school drafting or DRAFT 201

*1.1 hours lecture, 2.3 hours laboratory*

**ARCHT 360M2** 1.5 units

**Introduction to Green Design**

This course will provide an overview of LEED (Leadership in Energy and Environmental Design). The LEED rating system will be covered including: Sustainable Sites, Water Efficiency, Energy & Atmosphere, Materials & Resources and Indoor Environmental Quality. This course will provide preparation for the LEED Accredited Professional certification. Field trips will be required.

**Grading:** letter grade

Prerequisite: ARCHT 231

*3.4 hours lecture*

**ARCHT 240** 3.0 units

**Introduction to Green Design**

This course will provide an overview of environmentally responsible design including green and sustainable design application for Interior Designers. Case studies of green building projects will include evaluation of “green” interior finishes and materials, energy efficient lighting design, and water efficiency systems. This course will also provide preparation for the LEED Accredited Professional certification. Field trips will be required.

**Grading:** letter grade

Prerequisite: ARCHT 231

*3.4 hours lecture*

**ARCHT 241** 3.0 units

**Introduction to LEED**

This course will present an overview of LEED (Leadership in Energy and Environmental Design). The LEED rating system will be covered including: Sustainable Sites, Water Efficiency, Energy & Atmosphere, Materials & Resources and Indoor Environmental Quality. This course will provide preparation for the LEED Accredited Professional certification. Field trips will be required.

**Grading:** letter grade

Prerequisite: ARCHT 231

*3.4 hours lecture*

**ARCHT 360M1** 1.5 units

**Basic CAD for Architecture**

This is a beginning computer aided drafting (CAD) course that uses the most recent version of CAD. The course focus is on developing basic architectural knowledge and skills. The student will develop fundamental CAD skills and two dimensional (2D) sketch and production drawings. ARCHT 360M1 is one half of ARCHT 61 and leads to a certificate in architectural drafting.

**Grading:** letter grade

Prerequisite: One year of high school drafting or DRAFT 201

*1.1 hours lecture, 2.3 hours laboratory*

**ARCHT 360M2** 1.5 units

**Architecture Design CAD**

This course is an entry level computer aided drafting (CAD) course that uses the most recent version of CAD. The course focus is on developing basic architectural knowledge and skills. The student will develop two dimensional (2D) CAD production drawings and be introduced to 3 dimensional (3D) drawing conventions. ARCHT 360M2 is one half of ARCHT 61 and leads to a certificate or associates degree in architectural drafting.
### ART (ART)

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td><strong>ART 1</strong></td>
<td>3.0</td>
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<tr>
<td>Art and Civilization</td>
<td>3.4 hours lecture</td>
</tr>
<tr>
<td>Recommended Preparation: Qualification through the English Assessment Process at an ENGL 1 level or completion of ENGL 105 or ESL 34 and READ 82.</td>
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<tr>
<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>This course explores the artistic heritage of Western civilization from prehistory to the end of the Gothic period through the study of major monuments of painting, sculpture and architecture. It emphasizes the development of art forms as reflective of the social, political, religious, and aesthetic sensibilities of the historical periods covered. The course is appropriate for art majors and non-art majors.</td>
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<td>Honors Art and Civilization</td>
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<td>Prerequisite: Qualification for the Honors Program</td>
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<tbody>
<tr>
<td><strong>ART 2</strong></td>
<td>3.0</td>
</tr>
<tr>
<td>Art and Civilization</td>
<td>3.4 hours lecture</td>
</tr>
<tr>
<td>Recommended Preparation: Qualification through the English Assessment Process at an ENGL 1 level or completion of ENGL 105 or ESL 34 and READ 82.</td>
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<td>This course is an historical approach to painting, sculpture, and architecture from Renaissance to modern times, emphasizing the relationship of art to concurrent philosophical, political, and social ideas. Discussions include key artists and their techniques. ART 1 is NOT a prerequisite.</td>
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<tr>
<td><strong>ART 3</strong></td>
<td>3.0</td>
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<tr>
<td>Modern and Contemporary Art</td>
<td>3.4 hours lecture</td>
</tr>
<tr>
<td>Recommended Preparation: Qualification through the English assessment process at an ENGL 105 or ESL 34 and READ 82 or met the college proficiency for English and Reading</td>
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<tr>
<td>This course surveys modern art from its mid-19th century beginnings to contemporary trends. Painting, sculpture, architecture and new art forms are explored in their broader cultural context.</td>
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<td><strong>ART 3H</strong></td>
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<tr>
<td>Honors Modern and Contemporary Art</td>
<td>3.4 hours lecture</td>
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<td>Prerequisite: Qualification for the Honors Program</td>
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<tr>
<td><strong>ART 4</strong></td>
<td>3.0</td>
</tr>
<tr>
<td>African, Oceanic, Native American Art</td>
<td>3.4 hours lecture</td>
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<tr>
<td>Recommended Preparation: Qualification through the English assessment process at an ENGL 105 or ESL 34 and READ 82 or met the college proficiency for English and Reading</td>
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<td>This course is a survey of the painting, sculpture, architecture and crafts of Black Africa, Australia, Melanesia, Polynesia and Pre-Columbian North America. These traditions will be experienced through lectures, slides, movies, music and artifacts. The relationship of these areas to the mainstream of Western art also will be made.</td>
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<td><strong>ART 4H</strong></td>
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<td>Honors African, Oceanic, Native American Art</td>
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relationship of these areas to the mainstream of Western art also will be made.

**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

**ART 5**

**History of Asian Art**

3.4 hours lecture

Recommended Preparation: Qualification through the English assessment process at an ENGL 105 or ESL 34 and READ 82 or met the college proficiency for English and Reading

Grading: letter grade or pass/no pass

This course serves as a comprehensive introduction to the art traditions of India, Southeast Asia, China, Korea and Japan. The historical development of the arts is examined within their broader cultural context.

**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

**ART 9**

**Introduction to Art**

2.3 hours lecture, 3.4 hours laboratory

Grading: letter grade or pass/no pass

This course provides a general approach to exploring a student’s innate creative ability, a broad overview of historical and contemporary art concepts, and is an introduction to art processes and methods. This course is designed for the non-art major and is recommended for teaching majors.

**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

**ART 10**

**Art Appreciation**

3.4 hours lecture

Grading: letter grade or pass/no pass

Students will be introduced to the major themes and concepts that have been the source for artistic expression in the visual arts. Ideas are viewed from a thematic exploration of art to express aesthetically human wants, needs and hopes. Through lectures and visual aids, students become aware of artistic ideas, media and techniques. The course is designed for the non-art major.

**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

**ART 11**

**Pre-Columbian Art**

3.4 hours lecture

Grading: letter grade or pass/no pass

This course explores pre-Columbian art from Mexico, Central and South America through the study of major monuments of sculpture, architecture, ceramics, textiles and painting. The slide-lecture format will be complemented by music, films and artifacts. The course is appropriate for art majors and non-art majors.

**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

**ART 11H**

**Honors Pre-Columbian Art**

3.4 hours lecture

Prerequisite: Qualification for the Honors Program

Grading: letter grade or pass/no pass

This course explores pre-Columbian art from Mexico, Central and South America through the study of major monuments of sculpture, architecture, ceramics, textiles and painting. The slide-lecture format will be complemented by music, films and artifacts. The course is appropriate for art majors and non-art majors.

**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

**ART 12**

**Gallery and Exhibition Design**

2.3 hours lecture, 4.5 hours laboratory

Recommended Preparation: ART 30 and ART 31

Grading: letter grade

Intro to the basic concepts applied to art exhibitions and installation. A foundation of history, theory and criticism will acquaint students to the function of galleries and exhibits in society. Apply learning with hands-on experience, assisting in creating shows, caring for and cataloging art works, working with professional artists and installing exhibitions in the Long Beach City College Fine Arts Gallery.

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**ART 15**

**Beginning Drawing**

2.3 hours lecture, 4.5 hours laboratory

Grading: letter grade or pass/no pass

This is an introductory studio experience in freehand drawing emphasizing accurate observation, light logic, perspective, spatial relationships, proportion and composition. Students develop the use of these skills as a means of personal expression.

**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

**ART 16**

**Intermediate Drawing**

2.3 hours lecture, 4.5 hours laboratory

Prerequisite: ART 15

Grading: letter grade or pass/no pass

This is an advanced studio drawing experience with emphasis on the employment of personal expression as applied to 20th Century concepts and trends.

**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

**ART 17**

**Illustration I**

2.3 hours lecture, 4.5 hours laboratory

Recommended Preparation: ART 15

Grading: letter grade or pass/no pass

This course serves as an introduction to illustration. It stresses the creative interpretation of subjects, situations, and themes within the context of commercial art such as advertising, editorial, and institutional. Special emphasis is placed on the creation of illustrations from rough concept through finished artwork. Production, media processes, color analysis and application, portfolio development and presentation are presented. Studio experience in the use of linear perspective to develop illustrative realistic representation is emphasized.

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.
### Courses of Instruction

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ART 18</td>
<td>3.0 units</td>
</tr>
<tr>
<td><strong>Illustration II</strong></td>
<td></td>
</tr>
<tr>
<td>2.3 hours lecture, 4.5 hours laboratory</td>
<td></td>
</tr>
<tr>
<td>Recommended Preparation: ART 15 and ART 17</td>
<td></td>
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<tr>
<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>Formerly ART 18AD. This course is a continuation of the concepts and techniques presented in Illustration I. Increasingly more advanced illustration projects, techniques, concepts and methods will be presented. Emphasis is placed on the development of original concepts, refinements of techniques, production methods and development and presentation of portfolio-quality artwork. In addition, rendering, or sharp focus drawing techniques will be presented and incorporated in several projects. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>ART 24</td>
<td>3.0 units</td>
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<tr>
<td><strong>Watercolor, Beginning</strong></td>
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<tr>
<td>2.3 hours lecture, 4.5 hours laboratory</td>
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<tr>
<td>Recommended Preparation: ART 15</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>This course offers an opportunity to explore and develop creative attitudes, values and personal expression in the medium of watercolor. The course investigates and emphasizes unique techniques, methods and tools, using the elements and principles of two-dimensional pictorial composition in an imaginative, personal manner. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>ART 25</td>
<td>3.0 units</td>
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<tr>
<td><strong>Watercolor, Advanced</strong></td>
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<tr>
<td>2.3 hours lecture, 4.5 hours laboratory</td>
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<tr>
<td>Prerequisite: ART 24</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>This is an advanced course in watercolor painting with an emphasis on the employment of personal expression as applied to 20th century concepts and trends. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<td>ART 26</td>
<td>3.0 units</td>
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<tr>
<td><strong>Figure Painting</strong></td>
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<tr>
<td>2.3 hours lecture, 4.5 hours laboratory</td>
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<tr>
<td>Prerequisite: One Semester of ART 19</td>
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<tr>
<td>Recommended Preparation: ART 23</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>This course introduces and investigates painting the human figure from observation with the emphasis on anatomy, historical and contemporary issues and personal interpretation. Light logic and color theory systems as they pertain to the figure will be introduced and developed to create resolved compositions and accurate representations of the figure. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>ART 27</td>
<td>3.0 units</td>
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<tr>
<td><strong>Intermediate Painting</strong></td>
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<tr>
<td>2.3 hours lecture, 4.5 hours laboratory</td>
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<td>Prerequisite: ART 23</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>This course is a studio experience designed for students with basic painting skills. The course will introduce them to historical and contemporary visual art concepts and techniques. The students will develop paintings that reflect personal expression, experimental media and current trends in painting. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>ART 28</td>
<td>3.0 units</td>
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<tr>
<td><strong>Portrait Drawing and Painting</strong></td>
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<tr>
<td>2.3 hours lecture, 4.5 hours laboratory</td>
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<tr>
<td>Prerequisite: ART 15 and ART 23</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>Formerly ART 28AD. This is a drawing and painting course focusing on representing the human head. Emphasis will be placed on observational skills, proportion, and anatomy as a means of personal expression. This course is recommended for those interested in illustration, drawing and painting and art majors interested in transferring to a university. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>ART 30</td>
<td>3.0 units</td>
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<tr>
<td><strong>Fundamentals of Art/Volume, Plane &amp; Form</strong></td>
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<tr>
<td>2.3 hours lecture, 4.5 hours laboratory</td>
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<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>This course is a foundational studio experience designed to provide a basic understanding of the elements and principles of three-dimensional design. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<td>ART 31</td>
<td>3.0 units</td>
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<tr>
<td><strong>Fundamentals of Art/Composition &amp; Color</strong></td>
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<tr>
<td>2.3 hours lecture, 4.5 hours laboratory</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>This course is an introduction to the elements and principles of two-dimensional design as they apply to the visual arts. The course is a beginning level studio experience designed to create understanding of line, shape, texture, pattern, value, color and composition. Principles of design; rhythm, harmony, balance, unity, variety, and emphasis will be explored. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<td>Course Number</td>
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<td>ART 32</td>
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<td>ART 33</td>
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<td>ART 34</td>
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<td>ART 40</td>
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<tr>
<td>ART 41</td>
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|               |       | This course serves as an introduction to computer graphic production in the areas of three-dimensional and time based electronic media. It emphasizes the unique characteristics of three and four-dimensional realities as presented in electronic media. Students will explore the distinct visual characteristics of virtual dimensions in both time and space. Transfer Status: Transferable to UC, CSU; see counselor for limitations.
ART 43 3.0 units
Beginning Website Design
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: ART 41
Recommended Preparation: ART 31
Grading: letter grade or pass/no pass
In this course students learn to apply graphic design theory to a variety of communication needs. The unique design issues associated with non-linear communication are addressed. Students apply these principles to the creation of actual websites through hands-on use of a variety of software applications. This course is intended for art and non-art majors.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ART 44 3.0 units
Graphic Design Tools & Techniques
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: ART 41
Recommended Preparation: ART 31
Grading: letter grade or pass/no pass
This course is an exploration of the basic use of computers for graphic design. Students learn the fundamentals of graphic design in preparation for visual communications for both digital and print media. By completing assignments on the computer, students will create documents that effectively combine text and graphics. Projects will be created using a variety of input and output devices as well as software.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ART 45 3.0 units
Computer Art for Drawing and Painting
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: ART 41
Recommended Preparation: ART 31
Grading: letter grade or pass/no pass
Digital image creation is explored using vector and raster based software applications such as Adobe Illustrator and Photoshop. Students learn the appropriate use of image creation software and hardware. Images are developed for both commercial and fine art applications.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ART 46 3.0 units
Computer Art & Design in 3D Modeling
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: ART 41
Recommended Preparation: ART 31 and ART 42
Grading: letter grade or pass/no pass
Students digitally construct three-dimensional objects and learn to deal with abstract objects in virtual three-dimensional space. Specific relationships will be made between electronic modeling and the visual arts, in particular, sculpture, animation, illustration, and other areas of computer graphics.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ART 47 3.0 units
Computer Animation and Multimedia
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: ART 41
Recommended Preparation: ART 31 and ART 42
Grading: letter grade or pass/no pass
This course introduces the skills and software used to create digital multimedia and animation. Students will learn the theories of computer-based animation and interactive multimedia design. Students will also learn how to digitally create stand alone, as well as interactive multimedia/animation, projects.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ART 48 3.0 units
Computer Art & Design for TV and Video
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: ART 41
Recommended Preparation: ART 31
Grading: letter grade or pass/no pass
Students learn to develop digital content for video requirements on the computer. Students use non-linear editing and compositing of clips to create professional quality productions.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ART 49 3.0 units
Special Studies-Computer Art and Design
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: ART 41
Recommended Preparation: Four courses from ART 43, ART 44, ART 45, ART 46, ART 47 and ART 48.
Grading: letter grade or pass/no pass
Formerly ART 49AD. This course is for art majors in computer art and design who have completed a series of computer art classes and are prepared to do advanced work in a specific area. It will allow students to develop personal skills for their chosen specialty in the computer art field. Students work independently on projects formulated with faculty assistance.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ART 50 3.0 units
Ceramics I
2.3 hours lecture, 4.5 hours laboratory
Recommended Preparation: ART 30 and ART 31
Grading: letter grade or pass/no pass
Students will explore basic hand and wheel methods of forming, decorating and glazing three-dimensional ceramic forms. As students develop a personal awareness and appreciation of the creative process, they will use clay as a medium of aesthetic expression.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ART 51 3.0 units
Ceramics II
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: ART 50
Recommended Preparation: ART 30 and ART 31
Grading: letter grade or pass/no pass
This course serves as a creative experience in the visual arts using clay as a medium of expression. Students will
apply knowledge gained in the first course (Ceramics I) to solve more complex problems of forming, decoration and glazing three-dimensional ceramic forms.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**ART 52**  
**Ceramics III**  
2.3 hours lecture, 4.5 hours laboratory  
Recommended Preparation: ART 51  
Prerequisite: ART 51  
Grading: letter grade or pass/no pass  
Formerly ART 52AD. In this course students develop a more intensive knowledge of ceramics along with the ability to produce well designed ceramic objects. Emphasis is placed on the creation of the clay objects, initial concept through finished artwork, including refinements of glazing techniques, aesthetic judgment and problem solving capabilities. Kiln firing, glaze and clay technology will be presented.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**ART 53**  
**Ceramics IV**  
2.3 hours lecture, 4.5 hours laboratory  
Recommended Preparation: ART 30 and ART 31  
Grading: letter grade or pass/no pass  
Formerly ART 53AD. In this course students develop a more intensive knowledge of ceramics along with the ability to produce well designed ceramic objects. This course emphasizes non-utilitarian form, related clay, glaze and firing technology, problem-solving capabilities, skills and knowledge of materials.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**ART 55**  
**Introduction to Graphic Design**  
2.3 hours lecture, 4.5 hours laboratory  
Recommended Preparation: ART 30 and ART 31  
Grading: letter grade or pass/no pass  
This course serves as an overview of graphic design and its various components, including typography, illustration, photography and layout. The history of graphic design, as well as the relationship to advertising agencies, corporations, publishers, typographers and printers is covered. Students will develop skills in design software and hardware use while enhancing their ability to coordinate type, image and symbol.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

**ART 56**  
**Introduction to Typography**  
1.1 hours lecture, 2.3 hours laboratory  
Grading: letter grade or pass/no pass  
This course is for all students considering work in the field of graphic and communication design. The study of lettering and typographic form is explored from historic, theoretic and aesthetic views. Students learn the appropriate use of specific families of type.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

**ART 60**  
**Beginning Sculpture**  
2.3 hours lecture, 7.9 hours laboratory  
Recommended Preparation: ART 30  
Grading: letter grade or pass/no pass  
This is an introductory studio course structured to give students an understanding of the formal elements of sculpture, while investigating various materials and processes. Both additive and subtractive methods are explored using clay, plaster and wood, as well as non-traditional materials. This course is designed to allow students to investigate form, space, material and content through selected projects, readings, field trips, slides and discussions.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**ART 61**  
**Intermediate Sculpture**  
2.3 hours lecture, 7.9 hours laboratory  
Recommended Preparation: ART 60  
Grading: letter grade or pass/no pass  
This studio course is an introduction to a subjective approach to sculpture emphasizing the development of ideas in relation to personal/individual intent. An investigation of both historical and contemporary sculpture that may include carving, casting, modeling, welding, fiberglass lamination, installation and non-studio pieces. There is an emphasis on the advancement of technical and material skills as well as the understanding of an overall art making process. Students continue their investigation of form, space, material and content through selected projects, readings, field trips, lectures, and discussions.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**ART 62**  
**Metal Fabrication Sculpture**  
2.3 hours lecture, 7.9 hours laboratory  
Recommended Preparation: ART 60  
Grading: letter grade or pass/no pass  
This studio course is designed to increase understanding of contemporary sculpture through a focus on the fundamentals of metal fabrication. This is an investigation of both historical and contemporary sculpture that may include oxy-acetylene, arc and heli-arc welding, basic forging, bending and cold-joint metal fabrication techniques. There is an emphasis on the advancement of technical and material skills as well as the understanding of an overall art making process. Students continue their investigation of form, space, material, and content through selected projects, readings, field trips, lectures, and discussions.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

**ART 63**  
**Metal Casting Sculpture**  
2.3 hours lecture, 7.9 hours laboratory  
Recommended Preparation: ART 60  
Grading: letter grade or pass/no pass  
This studio course is designed to investigate contemporary sculpture ideas through traditional, industrial and new metal casting processes. Students explore Styrofoam/Greensand and standard investment for casting aluminum and bronze. Instruction on
Courses of Instruction

surfaceing includes patina, stains, paints and varnish application. Ceramic shell casting may also be explored.

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**ART 70**
**Printmaking, Silkscreen**
2.3 hours lecture, 4.5 hours laboratory
Grading: letter grade or pass/no pass
This course introduces the scope of the graphic art of printmaking as a means of personal expression. Students will learn the basic techniques of water-based serigraphy; blockout stencil, paper stencil and photo-emulsion stencils. Emphasis is on skill acquisition and refinement in the context of art and design.

**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

**ART 71**
**Printmaking, Intaglio**
2.3 hours lecture, 4.5 hours laboratory
Grading: letter grade or pass/no pass
This course is an introduction to the graphic art of printmaking as a means of personal expression. The Intaglio class includes techniques and processes for etching, drypoint, engraving, multicolor plates, viscosity, aquatint, and photo etching. Emphasis is on skill acquisition and refinement in a context of art and design.

**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

**ART 72**
**Advanced Printmaking**
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: One Semester of ART 70 or ART 71.
Grading: letter grade or pass/no pass
Formerly ART 72AD. Students will work in special studies of advanced techniques and exploration of collagrophy, intaglio, serigraphy and/or woodcut. Students will develop and pursue individualized projects and gain competence in edition printing, darkroom techniques and mixed media.

**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

**ART 80**
**Elements of Photography**
3.4 hours lecture
Grading: letter grade or pass/no pass
This lecture-only course is a survey of photography as a creative, personal form of expression. The emphasis of the class is on acquisition of skills related to camera operation, selection of equipment, choosing appropriate subject matter and how to take and evaluate the final product, the photograph. This course is a lecture only format and does not include a lab component.

**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

**ART 81**
**Introduction to Fine Art Photography**
2.3 hours lecture, 4.5 hours laboratory
Recommended Preparation: ART 31
Grading: letter grade or pass/no pass
This course is an introduction to photography as a creative personal form of expression. The emphasis is on acquisition of black and white darkroom skills, operation of a camera, concepts and practices of fine art photography. It is suitable for students with beginning to advanced photographic skill levels.

**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

**ART 90**
**Special Projects in Art**
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: ART 19 or ART 26 or ART 27 or ART 36 or ART 37 or ART 38 or ART 42 or ART 44 or ART 51 or ART 61 or ART 62 or ART 63 or ART 70 or ART 71
Grading: letter grade or pass/no pass
Formerly ART 90AD. This course is designed to assist the student in the exploration and development of an individual approach to projects within specific fields of art.

**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

**ART 91**
**Studio Projects in Art**
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: ART 19 or ART 26 or ART 27 or ART 36 or ART 37 or ART 38 or ART 42 or ART 44 or ART 51 or ART 61 or ART 62 or ART 63 or ART 70 or ART 71
Grading: letter grade or pass/no pass
Formerly ART 91AD. This course is designed to assist the student in the exploration and development of an individual approach to studio projects within the field of art.

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**ART 292**
**Professional Skills for Artists**
2.3 hours lecture, 4.5 hours laboratory
Recommended Preparation: Completion of at least three studio art courses
Grading: letter grade or pass/no pass
This course is designed to develop the skills necessary for portfolio presentation as a student, professional artist or art director. Lectures and demonstrations will include photographing artwork, documentation of artwork, matting, framing, resume and artist statement writing, portfolio development and portfolio presentation. Class lectures will also include information on schools, exhibitions, criticism, ethical and contractual issues.

**ASTRONOMY (ASTR)**

**ASTR 1**
**Elementary Astronomy**
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is an introduction to astronomy. Topics to be covered include the physical nature of the solar system, stars and stellar systems, and the universe as a whole, including not only their current state, but also theories of their origin and evolution.

**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.
Courses of Instruction

**ABODY 213** 9.0 units
Major Collision Repair
5.6 hours lecture, 15.0 hours laboratory, 0.3 hour supplemental learning
Recommended Preparation: ABODY 212
Grading: letter grade or pass/no pass
This course will cover the analysis of major automotive collision damage and the knowledge and skills necessary to repair the structural body components to pre-accident condition. Topics will include safety practices, frame straightening techniques, replacement of major structural panels, Mig welding (GMAW), removal and installation of major body components, air conditioning recycling and recharging, metal finishing, basic electrical systems, basic mechanical techniques, and special projects. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course content.

**ABODY 240** 5.0 units
Automotive Refinishing I
3.4 hours lecture, 6.8 hours laboratory
Recommended Preparation: ABODY 213
Grading: letter grade or pass/no pass
This beginning automotive painting course will cover the basic principles in automotive refinishing. The course covers safety practices, preparation and masking, refinishing products, refinishing nomenclature, spray painting equipment, spray painting techniques, and special projects.

**ABODY 419** 4.0 units
Auto Body Repair
2.3 hours lecture, 6.8 hours laboratory
Grading: letter grade or pass/no pass
Formerly ABODY 419AD. This course will cover the analysis of major automotive collision damage. Topics will include safety practices, frame straightening techniques, replacement of major structural panels, Mig welding (GMAW), removal and installation of major body components, metal finishing, basic electrical systems and, basic mechanical techniques. This course will also cover the basic principles in automotive refinishing, safety practices, preparation and masking, refinishing products, refinishing nomenclature, spray painting equipment, spray painting techniques, and special projects.

**AUTO BODY REPAIR (ABODY)**

**ABODY 211** 9.0 units
Intro to Basic Auto Body Repair
5.6 hours lecture, 15.0 hours laboratory, 0.3 hour supplemental learning
Grading: letter grade or pass/no pass
This course is an introduction to basic auto body repair principles involving theory, safety practices, gas welding, metal shrinking, MIG welding, metal straightening, metal finishing, hand and power tools, plastic body filler, surface preparation, primer and spray gun techniques. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course’s content.

**ABODY 240** 5.0 units
Automotive Refinishing I
3.4 hours lecture, 6.8 hours laboratory
Recommended Preparation: ABODY 213
Grading: letter grade or pass/no pass
This beginning automotive painting course will cover the basic principles in automotive refinishing. The course covers safety practices, preparation and masking, refinishing products, refinishing nomenclature, spray painting equipment, spray painting techniques, and special projects.

**ABODY 419** 4.0 units
Auto Body Repair
2.3 hours lecture, 6.8 hours laboratory
Grading: letter grade or pass/no pass
Formerly ABODY 419AD. This course will cover the analysis of major automotive collision damage. Topics will include safety practices, frame straightening techniques, replacement of major structural panels, Mig welding (GMAW), removal and installation of major body components, metal finishing, basic electrical systems and, basic mechanical techniques. This course will also cover the basic principles in automotive refinishing, safety practices, preparation and masking, refinishing products, refinishing nomenclature, spray painting equipment, spray painting techniques, and special projects.

**AUTOMOTIVE TECHNOLOGY (AMECH)**

**AMECH 50A** 3.0 units
Machine Tool Operation and Practices
2.3 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
Formerly MACH 50A. This course is designed to explore the machining techniques utilized in the machine shop. This entry level machining course covers safety practices required in the modern manufacturing industry. This course includes semi-precision layout, semi-precision /precision measurement, tools and equipment. Students learn to operate the milling
Courses of Instruction

AMECH 231 9.0 units
Engine Repair & Automatic Transmissions
5.6 hours lecture, 15.0 hours laboratory, 0.3 hour supplemental learning
Recommended Preparation: High school auto or AMECH 421
Grading: letter grade or pass/no pass
This course covers safety, tools and fasteners, nomenclature, theory, demonstrations and “hands on” instruction on differently fueled automobile engines. This course also covers automatic transmissions and engine repair. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course’s content.

AMECH 232 9.0 units
Brakes and Steering Systems
5.6 hours lecture, 15.0 hours laboratory, 0.3 hour supplemental learning
Recommended Preparation: High school auto or AMECH 421
Grading: letter grade or pass/no pass
This course will cover topic areas such as safety, tools and equipment, related math and theory, brake systems, steering systems, and the sub systems that correlate with the major topics such as wheels and tires. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course’s content.

AMECH 233 9.0 units
Auto Electrical and Fuel Systems
5.6 hours lecture, 15.0 hours laboratory, 0.3 hour supplemental learning
Recommended Preparation: High school auto or AMECH 421
Grading: letter grade or pass/no pass
This course covers testing and repair of automotive charging and starting systems, ignition systems (conventional and transistorized), fuel systems on (carburation and fuel injection) and oscilloscopes operation (conventional and computer assisted). This course is designed to assist the student with preparation for the ASE (Automotive Service Excellence) test. This course will also explain electrical and fuel systems on Diesel, Hybrid, LNG (Liquid Natural Gas), CNG (Compressed Natural Gas) and Hydrogen Fuel cells. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course’s content.

AMECH 236 9.0 units
Automatic Emission & Computer Control
5.6 hours lecture, 15.0 hours laboratory
Recommended Preparation: AMECH 233
Grading: letter grade or pass/no pass
This course is designed to cover the California State approved “Clean Air Course” and the operation and testing of the emission and computer control systems. This course will prepare a student for the Automotive Service Excellence (ASE) and the State Emission Control License test.

AMECH 421 3.0 units
Auto Mechanics 1
2.3 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
This course is an introductory course covering the principles of the operation of the modern automobile. This course will provide practical experience in maintenance and repair at the owner operator level. Consumer awareness is emphasized.

AMECH 424 3.0 units
Auto Air Conditioning
2.3 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
This course covers automotive tools, automotive equipment, automotive refrigeration fundamentals, automotive electrical systems, automotive air distribution, automatic air conditioning, installation, maintenance, and repair of modern automotive air conditioning systems. Emphasis is based on industrial repair and maintenance.

AMECH 430 6.0 units
Auto Wheel Alignment
5.6 hours lecture, 3.4 hours laboratory
Recommended Preparation: High school auto mechanics or AMECH 421
Grading: letter grade or pass/no pass
This course covers automotive wheel alignment theory, design, operation, power flow, suspension, and steering in automotive vehicles and small trucks. This course will also include testing, diagnostics, and modern methods of servicing vehicles. ASE (Automotive Service Excellence) testing preparation is emphasized.

AMECH 432 6.0 units
Automotive Brake Systems
5.6 hours lecture, 3.4 hours laboratory
Recommended Preparation: AMECH 421
Grading: letter grade or pass/no pass
Covers the theory, design and operation of the standard, disc and anti-lock brake systems common to most autos and small trucks. Includes testing, diagnosing and modern methods of servicing the brake system.

AMECH 434 6.0 units
Engine Repair
5.6 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
This course instruction will cover the fundamentals of engine operation, repair and rebuilding of engines, and commonly used tools and equipment. Emphasis in the course will be upon engine design, theory of construction, testing, and troubleshooting all based upon industrial standards.

AMECH 436 6.0 units
Automatic and Standard Transmissions
5.6 hours lecture, 3.4 hours laboratory
Recommended Preparation: High school auto or AMECH 421
Grading: letter grade or pass/no pass
This course covers the construction, operation, maintenance, adjustment and overhaul of manual and automatic transmissions.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>AMECH 438</td>
<td>6.0</td>
</tr>
<tr>
<td><strong>Auto Emission Controls</strong></td>
<td></td>
</tr>
</tbody>
</table>
5.6 hours lecture, 3.4 hours laboratory  
Recommended Preparation: High school auto mechanics or AMECH 421  
Grading: letter grade or pass/no pass  
This course covers the California State approved “Clean Air Course,” as well as preparation for the California Inspection and Maintenance Emission Control License. Also, this course covers operation and testing of computer-controlled oxygen feedback systems and use of the California State approved BAR97 Emissions Inspection System (EIS). This course is intended for students wishing to complete an A.S. Degree and/or a Certificate of Completion in Automotive Technology. This course is also the first of two courses necessary to prepare for a license exam administered by the State of California Smog Check Program for the Enhanced Emissions areas.  
**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.  
| **BIOLOGY (BIO)** | |  
| **BIO 1A** | 5.0 |
| **Biology for Science Majors** | |  
3.4 hours lecture, 6.8 hours laboratory  
Prerequisite: CHEM 1A  
Grading: letter grade  
This is the first semester of a one-year survey of biology. It includes the chemistry of life, cellular organization, biological membranes, energetics, genetics, evolution and diversity of prokaryotes, protists, and fungi.  
**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.  
| **BIO 1B** | 5.0 |
| **Biology for Science Majors** | |  
3.4 hours lecture, 6.8 hours laboratory  
Prerequisite: BIO 1A  
Grading: letter grade  
This is the second semester of a one-year survey of biology. It includes an overview of structures and life processes in plants and animals, animal and plant taxonomies, ecology, and behavior.  
**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.  
| **BIO 2** | 5.0 |
| **General Microbiology** | |  
3.4 hours lecture, 6.8 hours laboratory  
Grading: letter grade or pass/no pass  
This course is an introduction to the anatomy of bacteria, fungi, protozoa, viruses and prions. It covers microbial metabolism, pathogenesis of bacteria & viruses, control of micro-organisms, microbial nutrition and growth, the most common genera of micro-organisms and their connection to disease processes, and the replication of viruses and prions. Aspects of the course that are particularly helpful to health fields include a study of epidemiology and human-microbe interactions, host defenses and the immune system, and the most common infectious diseases of the body systems. The course is designed to meet the requirements of health fields such as registered nursing as well as to serve as a general education laboratory science course, which is transferable to four year universities.  
**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.  
| **BASIC ADULT EDUCATION (BAE)** | |  
| BAE 601B | 0.0 |
| **Basic Skills Development II** | |  
16.9 hours laboratory  
Grading: LBCC Non-Graded Course  
This course is part of a non-credit program designed to improve basic skills for students whose abilities range from pre-high school through pre-college level. The course emphasizes the development of basic reading, writing and math skills for students who: (1) are enrolled, or plan to enroll, in regular courses and need to improve or refresh their basic educational skills; (2) are preparing to take exams or need to develop basic skills for employment or special educational/vocational programs or college/university entrance; (3) wish to review or complete their secondary education; or (4) wish to improve their mastery of English as a Second Language. This course is part of a sequence of courses leading to a Certificate of Completion in Basic Skills for the Workplace.  
**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.  

Long Beach City College 2015-2016 Catalog  
www.lbcc.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Description</th>
<th>Transfer Status</th>
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</thead>
<tbody>
<tr>
<td>BIO 5</td>
<td>4.0</td>
<td>Plant Biology</td>
<td>3.4 hours lecture, 3.4 hours laboratory</td>
<td>Counselor for limitations</td>
</tr>
<tr>
<td>BIO 11</td>
<td>3.0</td>
<td>Environmental Problems of Man</td>
<td>3.4 hours lecture</td>
<td>Counselor for limitations</td>
</tr>
<tr>
<td>BIO 20</td>
<td>4.0</td>
<td>Marine Biology</td>
<td>3.4 hours lecture, 3.4 hours laboratory</td>
<td>Counselor for limitations</td>
</tr>
<tr>
<td>BIO 20H</td>
<td>4.0</td>
<td>Honors Marine Biology</td>
<td>3.4 hours lecture, 3.4 hours laboratory</td>
<td>Counselor for limitations</td>
</tr>
<tr>
<td>BIO 22</td>
<td>3.0</td>
<td>The Marine Environment</td>
<td>3.4 hours lecture</td>
<td>Counselor for limitations</td>
</tr>
<tr>
<td>BIO 25</td>
<td>3.0</td>
<td>Biology and Society</td>
<td>3.4 hours lecture</td>
<td>Counselor for limitations</td>
</tr>
<tr>
<td>BIO 28</td>
<td>2.0</td>
<td>Field Natural History of the Mountains</td>
<td>1.5 hours lecture, 2.3 hours laboratory</td>
<td>Counselor for limitations</td>
</tr>
<tr>
<td>BIO 30</td>
<td>4.0</td>
<td>Wildlife Biology</td>
<td>3.4 hours lecture, 3.4 hours laboratory</td>
<td>Counselor for limitations</td>
</tr>
<tr>
<td>BIO 31</td>
<td>2.0</td>
<td>Birds</td>
<td>1.7 hours lecture, 1.7 hours laboratory</td>
<td>Counselor for limitations</td>
</tr>
<tr>
<td>BIO 37</td>
<td>2.0</td>
<td>Field Natural Hist: South Calif. Deserts</td>
<td>1.5 hours lecture, 2.3 hours laboratory</td>
<td>Counselor for limitations</td>
</tr>
</tbody>
</table>
BIO 38 2.0 units
Field Natural History: Newport Bay
1.5 hours lecture, 2.3 hours laboratory
Grading: letter grade or pass/no pass
This natural history course utilizes lecture, laboratory, and field trips to study the estuarine wetland habitats of Newport Bay. Students will become acquainted with the basic physical, biological, historical, and political background of the bay. The common plants and animals will be studied with an emphasis on adaptations. Transfer Status: Transferable to CSU Only; see counselor for limitations.

BIO 41 3.0 units
Contemporary Biology
3.4 hours lecture
Grading: letter grade or pass/no pass
This course covers the general principles of biology, such as molecular biology, organic evolution, taxonomy, basic similarities of living patterns, basic physiology and anatomy of body systems, genetic continuity and environmental biology. Significant problems of modern biology are included. Not open for credit to students registered in or with credit in BIO 1A-B or 5. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

BIO 41H 3.0 units
Honors Contemporary Biology
3.4 hours lecture
Prerequisite: Qualification for the Honors Program.
Grading: letter grade or pass/no pass
This course covers the general principles of biology such as molecular biology, organic evolution, taxonomy, basic similarities of living patterns, basic physiology and anatomy of body systems, genetic continuity and environmental biology. Significant problems of modern biology are included. Not open for credit to students registered in or with credit in BIO 1A-B or 5. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

BIO 41L 1.0 unit
Contemporary Biology Laboratory
3.4 hours laboratory
Corequisite: BIO 41 or BIO 41H
Grading: letter grade or pass/no pass
This is an audio tutorial lab that provides practical, hands on experience in the field of biology. Students complete a series of experiments and demonstrations that clarify the general principles developed in BIO 41 lecture. The BIO 41 Lab is not open for credit to students registered in or with credit in BIO 1A-B or 5. Eligibility for the Honors program is required for enrollment. Transfer Status: Transferable to CSU Only; see counselor for limitations.

BIO 41LH 1.0 unit
Honors Contemporary Biology Lab
3.4 hours laboratory
Prerequisite: Qualification for the Honors program
Corequisite: BIO 41 or BIO 41H
Grading: letter grade or pass/no pass
This is an audio tutorial lab that provides practical, hands on experience in the field of biology. Students complete a series of experiments and demonstrations that clarify the general principles developed in BIO 41 lecture. The BIO 41 Lab is not open for credit to students registered in or with credit in BIO 1A-B or 5. Eligibility for the Honors program is required for enrollment. Transfer Status: Transferable to CSU Only; see counselor for limitations.

BIO 60 4.0 units
Human Biology 1
4.5 hours lecture
Grading: letter grade or pass/no pass
This course combines the elementary principles of anatomy, physiology, microbiology, nutrition and very elementary chemistry. Students are expected to learn the basic terminology of these fields as a foundation for further study of medical problems and diseases. Biology 60 is designed to fulfill the general science requirement and to meet the pre-requisite needs of the health occupations student. This course is not open for credit to students registered in or with credit in ANAT 1 and PHYS 1. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

BIO 60L 1.0 unit
Human Biology 1 Laboratory
3.4 hours laboratory
Prerequisite: BIO 60 (may be taken concurrently)
Grading: letter grade or pass/no pass
Human Biology lab provides a practical experience in a computerized-tutorial setting. Experiments and demonstrations are selected which clarify the principles developed in BIO 60. Not open for credit to students registered in or with credit in BIO 1A-B or 5. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

BIO 61 3.0 units
Human Biology 2
3.4 hours lecture
Prerequisite: BIO 60 or ANAT 41 or (ANAT 1 and PHYS 1).
Grading: letter grade or pass/no pass
This course is an introduction to the study of disease, including cause, prevention and symptoms of the common human diseases. The course assumes a basic understanding of anatomy and physiology. Biology 61 is designed for the general student and those in the health technology fields. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

BUSINESS, COMMUNICATIONS (BCOM)

BCOM 15 3.0 units
Business Communications
3.4 hours lecture
Grading: letter grade or pass/no pass
Formerly CAOTO 15. This course covers the principles of collecting, organizing, analyzing, and presenting business information. Written and oral communication involving problem solving in business are emphasized. Transfer Status: Transferable to CSU Only; see counselor for limitations.
**Courses of Instruction**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCOM 20</td>
<td>3.0</td>
<td>Business Writing</td>
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<tr>
<td></td>
<td></td>
<td>3.4 hours lecture</td>
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<td></td>
<td></td>
<td>Prerequisite: ENGL 1</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td></td>
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<td>This course delivers a basic understanding of business communication. The curriculum is designed to familiarize students with the techniques, strategies, and forms of writing used in the professional world. Emphasis will be placed on developing precise and persuasive language skills to achieve business goals. The course will prepare students for communication in the workplace and in other business classes.</td>
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<td>Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>BCOM 25</td>
<td>3.0</td>
<td>Professionalism in Social Media</td>
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<td></td>
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<td>3.4 hours lecture</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>This course teaches students how to use online social media tools and explore the design and impact of these new technologies for both personal and professional branding. Students will learn best practices by understanding social media etiquette and ethics. Students will explore the possibilities and limitations of social media and will have hands-on experience with several forms of social media technology. Those who complete this course will know how to use social media productively and have a framework for understanding and evaluating new tools and platforms.</td>
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<td>Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>BCOM 216</td>
<td>1.0</td>
<td>Proofreading Skills</td>
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<td>1.1 hours lecture</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td></td>
<td>Formerly CAOTO 216. Students develop skills in detecting and correcting errors in office documents through the study of basic English and proofreading principles.</td>
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<tr>
<td>BCOM 222</td>
<td>3.0</td>
<td>Job Search Skills</td>
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<tr>
<td></td>
<td></td>
<td>3.4 hours lecture</td>
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<td></td>
<td></td>
<td>Recommended Preparation: COSK 200</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>Formerly CAOTO 222. This course is designed to help students develop occupational competence for obtaining desired positions in the workforce. This includes career planning skills, resume and cover letter preparation, interview and interview follow-up skills, successful employment test completion, and the relationship of life-long learning to career success.</td>
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<tr>
<td>BCOM 223</td>
<td>3.0</td>
<td>Law Office Procedures-Litigation</td>
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<tr>
<td></td>
<td></td>
<td>3.4 hours lecture</td>
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<td></td>
<td></td>
<td>Recommended Preparation: COSA 10 or COSK 200</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>Formerly CAOTO 223. This course is designed to provide instruction in the legal secretary’s role in a law office setting, with a focus on legal procedures applicable to civil litigation. Topics covered will include legal terminology, legal office routine, preparation of legal documents relating to litigation cases, procedures for court filings, calendaring, and the use of a legal forms creation software application.</td>
</tr>
<tr>
<td>BCOM 224</td>
<td>3.0</td>
<td>Law Office Procedures</td>
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<td></td>
<td></td>
<td>3.4 hours lecture</td>
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<tr>
<td></td>
<td></td>
<td>Recommended Preparation: COSA 10 or COSK 200</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>Provides training in legal office routine, the setting up of legal documents in the areas of family law, real estate, workers compensation, wills and probate, procedures for court filing and calendaring and obtaining and completing Judicial Council and state and local court forms and pleadings.</td>
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<tr>
<td>BCOM 260</td>
<td>1.0</td>
<td>Business Telephone Procedures</td>
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<td>1.1 hours lecture</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>Formerly CAOTO 260. This course is designed for the person who needs instruction and practice in developing professional communication skills using the telephone and state-of-the-art telephone-related equipment in the business office, in order to maximize their use as business communication tools.</td>
</tr>
<tr>
<td>BCOM 261</td>
<td>3.0</td>
<td>Business English</td>
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<td></td>
<td>3.4 hours lecture</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>Formerly CAOTO 261. This course develops the foundation skills of mechanics of English that competent workers need to be competitive in the workplace. These skills include a thorough training: spelling, grammar, punctuation, sentence structure, and word usage. Emphasis will also be placed on developing a business vocabulary.</td>
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<tr>
<td>BCOM 262</td>
<td>1.0</td>
<td>Soft Skills for the Workplace</td>
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<td>1.1 hours lecture</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>Formerly CAOTO 262. This course covers the fundamentals of human relations in various business environments and develops a basic proficiency using these principles in order to enhance success in the workplace.</td>
</tr>
<tr>
<td>BCOM 263</td>
<td>3.0</td>
<td>Customer Service</td>
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<td>3.4 hours lecture</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>Formerly CAOTO 263. This course covers customer service including its importance to a successful business, customers’ needs and wants, support, as well as interactions and relationships. Students learn to develop multitasking skills, reduce stress, and maintain a positive attitude. Students will explore several different aspects of conflict and learn important skills that can help manage conflicts effectively as a customer service employee.</td>
</tr>
</tbody>
</table>

**BUSINESS, GENERAL (GBUS)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBUS 5</td>
<td>3.0</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.4 hours lecture</td>
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<td>Grading: letter grade</td>
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</tbody>
</table>
|             |       | This course is designed to provide a basic understanding of the business environment, with a special emphasis on globalization and ethics/social responsibility, as well as the prime operating functions of
management/organization, human resources, marketing, information/technology and accounting/finance. These skills are useful for both entry and mid-level positions. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**GBUS 10**  3.0 units

**Personal Financial Management**

3.4 hours lecture  
Grading: letter grade  
This course is designed to equip students with the financial literacy skills needed to effectively manage their personal finances and make sound lifelong financial decisions. Students will examine their relationships with money and develop an understanding of the social, psychological, and physiological contexts that influence financial decisions. Students will learn the financial tools needed to analyze, plan and manage their financial resources at different life stages. Topics include budgeting, income tax, managing basic assets, home buying, managing credit, analyzing and managing investments, managing insurance, retirement planning, and estate planning. Transfer Status: Transferable to CSU Only; see counselor for limitations.

**GBUS 215**  3.0 units

**Introduction to Business Ethics**

3.4 hours lecture  
Grading: letter grade or pass/no pass  
This course will examine ethical issues in business using interdisciplinary approach or team teaching drawn from Management and Philosophy. Topics will include environmental concerns, the distribution of wealth, informational ethics, privacy and autonomy, and affirmative action. These will be discussed in the context of moral theories such as utilitarianism, deontology and ethical egoism. This course is not open for credit to students who have completed Philosophy 16.

**BUSINESS, INTERNATIONAL (IBUS)**

**IBUS 1**  3.0 units

**Introduction to International Business**

3.4 hours lecture  
Grading: letter grade  
This course offers an introduction to the global business macro-environment and orients students toward a career in the field of international business. Topics covered include economic variables, cultural differences, political risk, regional trade agreements, foreign direct investment, and exchange rates. Transfer Status: Transferable to CSU Only; see counselor for limitations.

**IBUS 20**  3.0 units

**Export-Import Business Practices**

3.4 hours lecture  
Grading: letter grade  
This class consists of the basics of the export-import business, how to handle money matters and how to buy and sell. It is designed for the person seeking an entry level position, contemplating the start of an export-import business or the manager who wishes to expand a company’s marketing opportunities. Transfer Status: Transferable to CSU Only; see counselor for limitations.

**IBUS 52**  3.0 units

**Introduction to Supply Chain Management**

3.4 hours lecture  
Grading: letter grade  
This course orients the student to the alternative modes, systems, rates and regulations in global transport including ocean, air, and surface carriers and systems. It emphasizes the practical skills and techniques utilized to successfully market on an international basis. Transfer Status: Transferable to CSU Only; see counselor for limitations.

**IBUS 60**  3.0 units

**International Business Law**

3.4 hours lecture  
Recommended Preparation: LAW 18A  
Grading: letter grade  
This course is designed to explore the fundamentals of international business law and examine the scope of how international disputes affect global trade. It is appropriate for students who wish to pursue a career in the business field, especially those students interested in international business. Transfer Status: Transferable to CSU Only; see counselor for limitations.

**IBUS 75**  3.0 units

**Introduction to Logistics**

3.4 hours lecture  
Grading: letter grade  
This course will explore logistics systems and concepts, including inventory and warehouse management, logistics information systems, facility location, and global logistics. It is designed for those who are interested in becoming logistics professionals as well as those who wish to update their knowledge in the field. Transfer Status: Transferable to CSU Only; see counselor for limitations.

**BUSINESS, LAW (LAW)**

**LAW 18A**  3.0 units

**Business Law**

3.4 hours lecture  
Grading: letter grade  
This course is designed to explore the overall fundamental understanding of business law today. It examines the scope of how contracts and tort law affect the civil legal process as well as the nature of our current business environment. It is appropriate for students who wish to pursue a career in the business field. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**LAW 18B**  3.0 units

**Business Law**

3.4 hours lecture  
Grading: letter grade  
This course is designed to explore the overall fundamental operations of several distinct legal business entities and corporate structures. It examines the scope of how agency and employment law affect the nature of how business decisions are made and their significance. It is appropriate for students who wish to pursue a career in the business field, especially those students interested in business management or business law. Transfer Status: Transferable to UC, CSU; see counselor for limitations.
LAW 20 3.0 units
Property Law
3.4 hours lecture
Grading: letter grade
This course is designed to explore the overall fundamental understanding of the law of property. The course covers laws, regulations, and restrictions regarding the ownership and use of property. Topics include the nature of property, property descriptions, estates and other interests in property, co-ownership, methods of property transfer, landlord/tenant law, property contract, agency, and financing concepts, and government controls.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

BUSINESS, MANAGEMENT (MGMT)

MGMT 49A 3.0 units
Introduction to Management
3.4 hours lecture
Grading: letter grade
Introduction to Management is the entry level management course designed to introduce the traditional management tasks of planning, organizing, influencing and controlling. Course topics will include important issues such as innovation, technology, diversity, quality, ethics and the global environment.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

MGMT 49B 3.0 units
Human Resources Management
3.4 hours lecture
Grading: letter grade
This course will provide an introduction to the theory and practical applications of Human Resource Management (HRM): planning, recruiting, selecting, training and evaluating. Course topics will include important issues such as staffing and development, compensation and benefits, safety and health, labor-management relations, ethics and legal requirements.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

MGMT 58 3.0 units
Leadership and Supervision
3.4 hours lecture
Grading: letter grade
This course is designed for the first-line manager to develop necessary skills for success in a diverse workplace. Focus will be on human behavior issues such as ethics, motivation, personality, communication, group dynamics, and leadership development. Organizational issues will include satisfaction, productivity and performance.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

MGMT 60 3.0 units
Management & Organization Behavior
3.4 hours lecture
Grading: letter grade
This course provides a comprehensive view of Organizational Behavior from three primary levels of analysis: individual behavior, group behavior and the organizational system. Of equal importance is the influence of globalization, diversity, ethics/social responsibility and technology on the organization.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

MGMT 80 3.0 units
Small Business Entrepreneurship
3.4 hours lecture
Grading: letter grade
This course is designed to provide an understanding of the entrepreneurial elements of starting a small business with an eventual focus on the traditional management skills necessary to extend the life of the startup business. Major emphasis is placed on the development of a coherent business plan.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

BUSINESS, MARKETING (MKTG)

MKTG 40 3.0 units
Salesmanship
3.4 hours lecture
Grading: letter grade
This course is designed for those looking at a career in professional sales or as a refresher for current sales professionals. The course objective is to develop a thorough understanding of professional selling within the entire marketing process, with an emphasis on developing strong customer relationships.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

MKTG 41 3.0 units
Marketing Communications
3.4 hours lecture
Grading: letter grade
This course will help the student develop a thorough understanding of the various forms of marketing communications, such as advertising, sales promotion, direct-response and publicity/public relations. The focus will be on the concept of Integrated Marketing Communications as one of the functions of marketing strategy.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

MKTG 47 3.0 units
Essentials of Marketing
3.4 hours lecture
Grading: letter grade
This course will analyze the importance of the marketing concept throughout an organization. Students will develop the skills necessary to plan, organize and implement a marketing strategy for a product or service. These skills are useful for both entry and mid-level marketing positions.
Transfer Status: Transferable to CSU Only; see counselor for limitations.
Courses of Instruction

Carpentry (CARP)

CARP 211 10.0 units
Carpentry 1
6.8 hours lecture, 14.6 hours laboratory, 0.6 hour supplemental learning
Grading: letter grade or pass/no pass
This course is an introduction to the fundamentals of the building trades. Topics of instruction include: safety, building codes, construction mathematics, rough framing, residential concrete, residential concrete forms, blueprint reading, and technical information on materials and methods of residential construction. Practical instruction is given in the use of tools and materials through carpentry laboratory work. Students are required to attend 10 hours at the CTE Success Center for specially designed activities and assignments that relate to this course's content.

CARP 212 10.0 units
Carpentry 2
6.8 hours lecture, 14.6 hours laboratory
Prerequisite: CARP 211
Grading: letter grade or pass/no pass
This course will cover the topics of safety and rough framing. Rough framing includes mudsills and their placement, girder placement, foundation types including slab on grade and stemwall foundation, floor joists, sub-flooring, wall framing systems, ceiling joists and roughing out stairs. Field trips and special projects will also be part of this course.

CARP 213 10.0 units
Carpentry 3
6.8 hours lecture, 14.6 hours laboratory
Prerequisite: CARP 211
Grading: letter grade or pass/no pass
This is an advanced course in Carpentry covering various residential construction trades. Topics of instruction include: safety, building codes, construction mathematics, rough framing, residential roof framing, exterior finishes, interior finishes, blueprint reading, and technical information on materials and methods of residential construction. Practical instruction is given in the use of tools and materials through carpentry laboratory work.

CARP 219 4.0 units
Residential Roof Framing
2.3 hours lecture, 6.8 hours laboratory
Recommended Preparation: CARP 211
Grading: letter grade
This is an advanced course in Carpentry covering residential roof framing. Topics of instruction include roof structures, calculations and layout of various rafters, codes requirements, roof construction, and estimating. Practical instruction is given in the use of tools and materials through carpentry laboratory work.

CARP 222 4.0 units
Residential Stairs
2.3 hours lecture, 6.8 hours laboratory
Recommended Preparation: CARP 211
Grading: letter grade
This is an advanced course in Carpentry covering residential stairs framing. Topics of instruction include stair design, calculation, layout, and construction. Practical instruction is given in the carpentry laboratory work.

CARP 225 4.0 units
Metal Framing
2.3 hours lecture, 6.8 hours laboratory
Recommended Preparation: CARP 211
Grading: letter grade
This course covers the fundamentals of residential light steel framing. Topics include: raised floor construction, wall framing, trussed roof fabrication and installation, applicable building codes and blueprint reading. The fundamentals are learned through laboratory work which requires the use of standard construction tools and materials.

CARP 227 4.0 units
Finish Carpentry
2.3 hours lecture, 6.8 hours laboratory
Recommended Preparation: CARP 211
Grading: letter grade
This is an advanced course in carpentry covering residential interior finishes. Topics of instruction include: drywall installation, taping and texturing; hanging doors and installing door hardware; installing trim, including baseboard, window and door casing, chair rail and wainscot and crown molding; interior design, estimating, and layout. Practical instruction is given in the carpentry laboratory.

CARP 230 4.0 units
Cost Estimating
4.5 hours lecture
Recommended Preparation: CARP 440
Grading: letter grade or pass/no pass
This course is designed for those individuals needing to produce accurate project estimates; topics will include interpretation of project information from a detailed blueprint and processing it into a final detailed estimate.

CARP 245 3.0 units
Contracting Laws and Management
3.4 hours lecture
Grading: letter grade
This course is designed for those with construction experience who wish to become contractors. Topics of instruction include the following: home improvement certification, contractor license law, labor laws, payroll deductions planning, management principles, lien laws, and business organization.

CARP 311 3.0 units
Carpentry 1
1.8 hours lecture, 4.8 hours laboratory
Grading: letter grade or pass/no pass
This course is an introduction to the fundamentals of the building trades. Topics of instruction include safety, building codes, construction mathematics, rough framing, concrete formwork and placement, blueprint reading, and technical information on alternative “Green Technology” materials and methods of construction. Practical instruction is given in the use of tools and materials through carpentry laboratory work.

CARP 312 3.0 units
Carpentry 2
1.8 hours lecture, 4.8 hours laboratory
Grading: letter grade or pass/no pass
This course will cover safety and rough framing and will include: mudsills and their placement, girder placement, floor joists, sub-flooring, wall framing systems, and ceiling joists.
## Courses of Instruction

**CARP 313 3.0 units**  
Carpentry 3  
1.8 hours lecture, 4.8 hours laboratory  
Grading: letter grade or pass/no pass  
This course is an introduction to the fundamentals of the building trades. Topics of instruction include safety, roof types, roof theory, exterior wall finish, interior finish, and stairway construction. Practical instruction is given in the use of tools and materials through carpentry laboratory work.

**CARP 314 3.0 units**  
Carpentry 4  
1.8 hours lecture, 4.8 hours laboratory  
Grading: letter grade or pass/no pass  
This is an advanced course in Carpentry covering residential foundation designs, form construction, and advanced wood frame construction. Topics of instruction include the installation of concrete forms, building layout, concrete placement, and Post and Beam Construction. Practical instruction is given in the carpentry laboratory.

**CARP 415A 2.0 units**  
Home Remodeling and Repair  
1.1 hours lecture, 3.4 hours laboratory  
Grading: letter grade or pass/no pass  
This course focuses on home improvement projects and introduces the student to basic home remodeling. Topics will include safety, building codes, obtaining building permits, rough mechanical, trade related math, hand and power tools, techniques for installing or repairing plumbing fixtures, electrical repairs and upgrades, and energy saving concepts.

**CARP 415B 2.0 units**  
Home Remodeling and Repair  
1.1 hours lecture, 3.4 hours laboratory  
Prerequisite: CARP 415A  
Grading: letter grade or pass/no pass  
This course focuses on home improvement projects and introduces the student to basic home remodeling. Topics will include safety, building codes, framing floor systems, framing walls with doors and windows, trade related math, hand and power tools, framing various roof systems, and related construction hardware.

**CARP 415C 2.0 units**  
Home Remodeling and Repair  
1.1 hours lecture, 3.4 hours laboratory  
Prerequisite: CARP 415B  
Grading: letter grade or pass/no pass  
This course in home remodeling covers interior sub-crafts. Topics of instruction include insulation, safety, drywall, finish carpentry, tile, estimating, and relevant codes. Practical instruction is given in the carpentry laboratory work.

**CARP 415D 2.0 units**  
Home Remodeling and Repair  
1.1 hours lecture, 3.4 hours laboratory  
Prerequisite: CARP 415C  
Grading: letter grade or pass/no pass  
This course in home remodeling covers exterior sub-crafts. Topics of instruction include exterior flashing, safety, roofing, stucco, estimating, exterior siding, and relevant building codes. Practical instruction is given in the carpentry laboratory work.

**CARP 440 3.0 units**  
Blueprint Reading for Construction Trade  
3.4 hours lecture  
Grading: letter grade or pass/no pass  
This course introduces students to construction blueprint reading through a study of the fundamental skills and concepts involved in reading and interpreting drawings.

### CHEMISTRY (CHEM)

**CHEM 1A 5.5 units**  
General Chemistry  
4.5 hours lecture, 5.6 hours laboratory  
Prerequisite: CHEM 2 or Qualification through the LBCC assessment process and MATH 130, 130B, Qualification through the LBCC placement process for Math, or one year of high school intermediate algebra with a grade of B or better in the second semester.  
Recommended Preparation: One year high school Chemistry.  
Grading: letter grade or pass/no pass  
This is the first semester of a one year course which satisfies the general chemistry requirement for science, engineering, and premed majors. Topics covered include atomic theory and bonding, the periodic table and chemical properties, thermochemistry, chemical reactions, solids, liquids, and solutions, gases and the ideal gas law. There is an emphasis on stoichiometric calculations. The lab stresses quantitative measurements in chemical reactions.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**CHEM 1B 5.5 units**  
General Chemistry  
4.5 hours lecture, 5.6 hours laboratory  
Prerequisite: CHEM 1A  
Grading: letter grade or pass/no pass  
This course is the second semester of a one year course and fulfills the general chemistry requirement for students in chemistry, engineering, life science, physics, pre-dental, pre-medical, and pre-nursing programs. Topics covered include equilibrium of weak acids and bases, slightly soluble salts and complex ions in aqueous solution. The basic principles of thermodynamics and electrochemistry are presented, along with an introduction to coordination, nuclear and organic chemistry. The lab stresses descriptive inorganic chemistry and qualitative analysis.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**CHEM 2 4.5 units**  
Elementary Chemistry  
4.5 hours lecture, 2.3 hours laboratory  
Prerequisite: MATH 110 or MATH 110B or MATH 1880 or Qualification through the LBCC assessment process for Math or one year high school Elementary Algebra with a grade of B or better as reflected in the second semester grade.  
Grading: letter grade or pass/no pass  
This course is a prerequisite for CHEM 1A and prepares science or pre-professional majors, who are required to take CHEM 1A, but lack adequate preparation. This course provides basic knowledge and problem solving techniques necessary for CHEM 1A-B. Formula and equation writing, basic gas laws and stoichiometry are stressed. Students should be aware that many schools (CSULB included) do not allow credit for CHEM 2, once
CHEM 12A  5.5 units
Organic Chemistry
4.5 hours lecture, 5.6 hours laboratory
Prerequisite: CHEM 1A and CHEM 1B
Grading: letter grade or pass/no pass
The course emphasizes bonding, structure, properties and reactions of organic compounds. Modern spectroscopic and analytical techniques are covered, and an emphasis is placed on reaction mechanisms and kinetics. The laboratory part of the course stresses the techniques involved in the synthesis of organic compounds. This is the first semester of a one year course which satisfies the Chemistry requirement for science, engineering, and pre-medical or pre-dental majors.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

CHEM 12B  5.5 units
Organic Chemistry
4.5 hours lecture, 5.6 hours laboratory
Prerequisite: CHEM 12A
Grading: letter grade or pass/no pass
The course emphasizes bonding, structure, and reactions of organic compounds. Modern spectroscopic and analytical techniques are covered, and an emphasis is placed on reaction mechanisms and synthesis. The laboratory part of the course stresses techniques involved in the synthesis of organic compounds. This is the second semester of a one year course which satisfies the Chemistry requirement for science, engineering, and pre-medical or pre-dental majors.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

CHEM 12A  5.5 units
Intro to Gen, Organic & Biochemistry
4.5 hours lecture, 3.4 hours laboratory
Prerequisite: MATH 110 or MATH 110B or MATH 880 or Qualification through the LBCC assessment process for Math or one year high school Elementary Algebra with a grade of B or better as reflected in the second semester grade.
Grading: letter grade or pass/no pass
This course will introduce the principles of general, organic and biological chemistry. A variety of topics will be addressed, including atomic theory, chemical formulas, nomenclature, stoichiometry, solutions, acids and bases, hydrocarbons, alcohols and ethers, carbonyl compounds, carbohydrates, lipids, amino acids and proteins, nucleic acids, biochemical energetics and metabolism. Lab work will reinforce basic concepts and provide experience in manipulating lab equipment. This course satisfies the needs of Nursing, Home Economics and Allied Health Sciences. This course does not prepare students for CHEM 1A.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

CHEM 12B  5.5 units
Organic Chemistry
4.5 hours lecture, 5.6 hours laboratory
Prerequisite: CHEM 1A and CHEM 1B
Grading: letter grade or pass/no pass
This course focuses on professional development in Early Childhood Education and explores various types of programs and opportunities for specific occupations. This course also provides students with an opportunity to conduct a job search, investigate the interviewing process, improve communication skills and build a plan for professional competency development.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

CHEM 19  3.0 units
Health, Safety and Nutrition DS7
3.4 hours lecture
Recommended Preparation: KINPP 23M1
Grading: letter grade or pass/no pass
This course provides an introduction to the laws, regulations, standards, policies, 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. The focus is on integrating the concepts into everyday planning and program development for all children. An additional three to five hours of child observation, outside of regular class hours is required for this course.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDECE 1  1.0 unit
The Developing Professional
1.1 hours lecture
Grading: letter grade or pass/no pass
This course focuses on professional development in Early Childhood Education and explores various types of programs and opportunities for specific occupations. This course also provides students with an opportunity to conduct a job search, investigate the interviewing process, improve communication skills and build a plan for professional competency development.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDECE 3  3.0 units
Health, Safety and Nutrition DS7
3.4 hours lecture
Recommended Preparation: KINPP 23M1
Grading: letter grade or pass/no pass
This course provides an introduction to the laws, regulations, standards, policies, 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. The focus is on integrating the concepts into everyday planning and program development for all children. An additional three to five hours of child observation, outside of regular class hours is required for this course.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDECE 31  2.0 units
Adult Supervision
2.3 hours lecture
Recommended Preparation: Current or prior experience as a teacher in an ECE program.
Grading: letter grade
This course is a study of the methods and principles of supervising student teachers, volunteers, staff, and other adults in early care and education settings. Emphasis is on the roles and development of early childhood professionals as mentors and leaders.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDECE 34  3.0 units
Children’s Literature DS3
3.4 hours lecture
Grading: letter grade
This course examines traditional and contemporary children’s literature including poetry, fiction, non-fiction and folk literature from a variety of cultures. Criteria for literary and artistic evaluation as well as literary concepts such as theme and plot will be examined. Students will demonstrate presentation techniques and explore curriculum and community support for literature experiences with children.
Transfer Status: Transferable to CSU Only; see counselor for limitations.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Hours</th>
<th>Prerequisite(s)</th>
<th>Grading</th>
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<tbody>
<tr>
<td>CDECE 40</td>
<td>3.0</td>
<td>Infant Development &amp; Educaring D4</td>
<td>3.4</td>
<td>CDECE 45 or CDECE 47</td>
<td>letter grade</td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>CDECE 41</td>
<td>3.0</td>
<td>Toddler Development &amp; Educaring D4</td>
<td>3.4</td>
<td>CDECE 45 or CDECE 47</td>
<td>letter grade</td>
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<td>CDECE 45</td>
<td>3.0</td>
<td>Child &amp; Adolescent Development DS1</td>
<td>3.4</td>
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<td>letter grade or pass/no pass</td>
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<td>CDECE 47</td>
<td>3.0</td>
<td>Human Development</td>
<td>3.4</td>
<td></td>
<td>letter grade or pass/no pass</td>
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<tr>
<td>CDECE 48</td>
<td>3.0</td>
<td>Child, Family and Community D2</td>
<td>3.4</td>
<td></td>
<td>letter grade or pass/no pass</td>
<td>Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>CDECE 50</td>
<td>3.0</td>
<td>Intro to Curriculum for Young Children</td>
<td>3.4</td>
<td>CDECE 45 or CDECE 47</td>
<td>letter grade or pass/no pass</td>
<td>Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>CDECE 53</td>
<td>3.0</td>
<td>Principles and Practices</td>
<td>3.4</td>
<td></td>
<td>letter grade or pass/no pass</td>
<td>Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
</tbody>
</table>
advocacy, ethics and professional identity. Environments will be examined for influences of culture and inclusion on the developing child. 

Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDECE 54 3.0 units
Art & Creative Dev. in Early Childhood D3
3.4 hours lecture
Grading: letter grade or pass/no pass
This course explores the principles and methods of providing creative expression and art experiences for young children, 3-5 years old. This course fulfills the state licensing requirements for programs/curriculum D3.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDECE 55 3.0 units
Music & Movement in Early Childhood D3
3.4 hours lecture
Grading: letter grade or pass/no pass
This course explores the principles and methods of providing music and movement experiences for young children, 3-5 years. Students develop skills to effectively sing, play simple musical instruments and use movement activities with young children.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDECE 57 3.0 units
Science & Math in Early Childhood D3
3.4 hours lecture
Grading: letter grade or pass/no pass
This course explores the principles and methods of planning, implementing and evaluating science and math experience for young children 3-5 years old. Students will develop strategies to foster the child’s natural curiosity about the environment and quantity through activities that encourage exploration, experimentation, problem solving and discovery through play. This course fulfills state requirements for programs/curriculum D3.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDECE 58 3.0 units
Language & Literacy in Early Childhood
3.4 hours lecture
Grading: letter grade
This course surveys the range of language and literacy theories, practices and activities that support young children’s development. This course meets state licensing requirements for program curriculum D3.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDECE 59 3.0 units
Guiding Young Children DS3
3.4 hours lecture
Grading: letter grade or pass/no pass
This course studies ways of approaching and understanding child guidance as it applies to children from birth to age 8 in family and community settings as well as developing a personal approach to child guidance based on current scientific research and theory concerning child development. The course utilizes lecture, discussion, small group work, observation, and research to explore the processes linked to the development of prosocial behavior in young children.

The course focuses on the use of developmentally appropriate methods of guiding children to promote positive self-esteem. 

Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDECE 60A 3.0 units
Admin of Child Development Programs D6
3.4 hours lecture
Prerequisite: CDECE 45 or CDECE 47.
Grading: letter grade or pass/no pass
Introduction to the administration of early childhood programs. Covers program types, budget, management, regulations, laws, development and implementation of policies and procedures. Examines administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program. May be applied to degree, certificate or area of specialization requirements.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDECE 60B 3.0 units
Advanced Supervision of ECE D6
3.4 hours lecture
Prerequisite: CDECE 45 or CDECE 47.
Grading: letter grade or pass/no pass
This course covers effective strategies for personnel management and leadership in early care and education settings. Includes legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program. May be applied to degree, certificate or area of specialization requirements.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDECE 61 3.0 units
Teaching in a Diverse Society D3
3.4 hours lecture
Grading: letter grade or pass/no pass
This course examines the relationship of culture, language, family structure, ability, socioeconomic status and other issues on the formation of the young child’s concept of self and the learning process. Emphasis is on practical early childhood classroom applications for diverse populations, including the integration of cultures, generations, genders, and races into the classroom, facilitation of second language acquisition, and practical teaching strategies for implementing an anti-bias curriculum. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDECE 66 3.0 units
Observation and Assessment DS3
2.3 hours lecture, 3.4 hours laboratory
Prerequisite: CDECE 45 or CDECE 47. 
Recommended Preparation: CDECE 48 and CDECE 50.
Grading: letter grade
This course focuses on the appropriate use of assessment and observation strategies to document development, growth, play and learning in order to join with families and professionals in promoting children’s success and maintaining quality programs. Recording strategies, rating systems, portfolios, and multiple assessment methods are explored. The course meets state licensing
requirements for program curriculum DS3. Proof of negative TB test is required.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDECE 68 3.0 units
Practicum D3
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: CDECE 1 and CDECE 19 and CDECE 48 and CDECE 50 and CDECE 53 and CDECE 61 and CDECE 66 and CDLL 51A or CDLL 52A
Grading: letter grade or pass/no pass
This course provides students the opportunity to demonstrate developmentally-appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment will be utilized. Knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children. There are 72 hours of lab experience over the course of the semester.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDECE 259 3.0 units
Challenging Behaviors in Early Childhood
3.4 hours lecture
Recommended Preparation: CDECE 45 or CDECE 47 or CDECE 59.
Grading: letter grade
This course is the study of the relationship between developmental, environmental, and social-emotional variables and the young child’s challenging and/or extreme behaviors. Strategies, for use by the early childhood teacher or parent, which support the child’s development of social competence, self-control and self-image will be covered. Methods of teaching children friendship skills, feeling vocabularies, problem solving, and anger management are included. Observations at a variety of sites in the community will be required in this course. An additional three to five hours of child observation, outside of regular class hours is required for this course.

CDF 212B 3.0 units
Family Child Care Management B
3.4 hours lecture
Grading: letter grade
This course assists persons planning to become or currently involved in the group care of children in the home. This course focuses on the child guidance as well as the business aspects of family child care including working with parents, record keeping, and communication.

CHIL D AND ADULT
DEVELOPMENT-FAMILY
DEVELOPMENT (CDF)

CDF 210A 3.0 units
Skills/Strat. for Family Workers Pt. 1
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is part one of a two part series. The course is designed to prepare students and workers to assist families with the values, knowledge, and skills needed to empower families to achieve self-reliance. Focus will be on the principles of family development, family empowerment skills, self-support for family workers, effective communication with families, and cultural competency.

CDF 210B 3.0 units
Skills/Strat. for Family Workers Pt. 2
3.4 hours lecture
Prerequisite: CDF 210A
Grading: letter grade or pass/no pass
This course is part two of a two part series. The course is designed to prepare students and workers to assist families with the values, knowledge, and skills needed to empower families to achieve self-reliance. Part two focuses on strength-based assessment, resource development, service coordination, collaboration and networking, home visitations, team building, goal setting, and family conference facilitation.

CHIL D AND ADULT
DEVELOPMENT-LEARNING LAB
(CDLL)

CDLL 52 3.0 units
Fieldwork/Preschool Techniques
2.3 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
This course is a study of current concepts and research in early childhood education through lectures and lab participation. It is designed for child development majors, early childhood education majors and parents. Proof of a negative TB test is required for participation and observation in the children’s program. This course provides the student with 72 hours of supervised field work experience in ECE as defined by California Commission on Teacher Credentialing.
Transfer Status: Transferable to CSU Only; see counselor for limitations.
CDLL 52B 2.0 units
Fieldwork/Preschool Techniques
1.1 hours lecture, 4.5 hours laboratory
Grading: letter grade or pass/no pass
This course is a study of current concepts and research in early childhood education through lectures and lab participation. It is appropriate for child development majors, early childhood education majors and parents. It is designed to be a continuation of CDLL 52A. Proof of a negative TB test is required for participation and observation in the children’s program. This course provides the student with 72 hours of supervised field work experience in ECE as defined by California Commission on Teacher Credentialing. Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDLL 603 0.0 unit
LBCC Child Development Centers Participation
6.8 hours laboratory
Grading: LBCC Non-Graded Course
This is a non-credit lab experience for students participating in LBCC Child Development Center Demonstration Lab Schools, including the child care program, providing guided education and observation.

CHILD AND ADULT DEVELOPMENT-SCHOOL AGE (CDSA)

CDSA 62 3.0 units
Creative Express for School Age Children
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is a study of the principles, methods and materials that encourage creative expression in school children. School age environments, activities and behavior management techniques will be discussed. Hands-on participation in creative activities will be featured. Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDSA 63 3.0 units
The School Age Child
2.3 hours lecture, 3.4 hours laboratory
Grading: letter grade
This course is a study of the physical, social, emotional and cognitive development of the school age child, emphasizing the interaction of children and teachers in child care settings. Three hours of observation/participation at approved sites are required each week. Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDSA 65 3.0 units
School Age Curriculum
3.4 hours lecture
Grading: letter grade
This course is a survey of curriculum and activities appropriate for the school age child. Students who are interested in working with children in before and after-school care will practice developing, modifying, setting up and presenting age appropriate, school-age activities. These activities will cover all areas of the curriculum. Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDSA 75 3.0 units
School Age Child Care Practicum D5
2.3 hours lecture, 3.4 hours laboratory
Prerequisite: CDECE 45 or CDECE 47 and CDSA 62, CDSA 63 and CDSA 65
Grading: letter grade
This is a hands-on course in which students are provided an opportunity to plan, prepare, present and evaluate curriculum activities offered to school-age children (6-12) in various public and private school-age child care settings. Thirty additional hours of program participation, proof of negative TB test and fingerprint clearance are required. Transfer Status: Transferable to CSU Only; see counselor for limitations.

CHILD AND ADULT DEVELOPMENT-SPECIAL EDUCATION (CDSED)

CDSED 5 3.0 units
Community Resources/Special Education
3.4 hours lecture
Grading: letter grade or pass/no pass
This course studies community resources that identify, support, and enhance the lives of children and families with special needs. Agencies concerned with the health, education and welfare of children and families with special needs are studied in depth along with the influence of culture and family structures on student outcome. Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDSED 67 3.0 units
Intro to Children with Special Needs
3.4 hours lecture
Grading: letter grade or pass/no pass
This is a survey course that introduces the variations in development of children with special needs ages birth through eight and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to children with special needs, early intervention as well as the identification and referral process. Transfer Status: Transferable to CSU Only; see counselor for limitations.

CDSED 69 3.0 units
Special Education Practicum
2.3 hours lecture, 3.4 hours laboratory
Prerequisite: CDSED 67, 5, 70 and CDECE 45 or 47
Grading: letter grade
Students will plan, prepare, execute and evaluate various experiences with disabled individuals in schools and agencies in the greater Long Beach area. As well, they will learn specific techniques of working with children, adults, parents and staff to provide an appropriate experience for the disabled individual. There are 54 lab hours required for this course. Transfer Status: Transferable to CSU Only; see counselor for limitations.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDSED 70</td>
<td>3.0</td>
<td>Curriculum for Special Needs 3.4 hours lecture Grading: letter grade This course covers curriculum and intervention strategies for working with children with special needs in partnership with their families. Focuses on the use of observation and assessment in meeting the individualized needs of children in inclusive and natural environments. Includes the role of the teacher as a professional working with families, collaboration with interdisciplinary teams, and cultural competence. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>COMM 30</td>
<td>3.0</td>
<td>Elements of Group Communication 3.4 hours lecture Grading: letter grade or pass/no pass Formerly SP 30. Small group communication theories, principles, and strategies are examined and applied to facilitate the achievement of group goals in a variety of contexts. Problem-solving, critical thinking, and team-building strategies are emphasized. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>COMM 10</td>
<td>3.0</td>
<td>Elements of Public Speaking 3.4 hours lecture Grading: letter grade or pass/no pass Formerly SP 10. The theory and practice of public speaking is explored through the analysis, construction and delivery of various types of speeches. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>COMM 10H</td>
<td>4.0</td>
<td>Honors Elements of Public Speaking 4.5 hours lecture Prerequisite: Qualification for the Honors Program Grading: letter grade This is an Honors Communication Studies Course. The theory and practice of public speaking is explored through the analysis, construction and delivery of various types of speeches. Eligibility for the Honors program is required for enrollment. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>COMM 20</td>
<td>3.0</td>
<td>Elements of Interpersonal Communication 3.4 hours lecture Grading: letter grade or pass/no pass Formerly SP 20. This course takes an experiential approach to the study of the process of communication at both the intrapersonal and interpersonal levels. Time will be devoted to both the study of theories and experiments within the field of communication studies and their practical applications as related to perception, listening, non-verbal communication, conflict resolution and one’s self-concept. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>COMM 25</td>
<td>3.0</td>
<td>Elements of Intercultural Communication 3.4 hours lecture Grading: letter grade or pass/no pass Formerly SP 25. This course is designed to study the relationship between communication and culture. Emphasis is placed on the development of intercultural competence through the examination and understanding of the following: cultural worldviews, cultural identities, dominant U.S. cultural patterns, diverse cultural patterns, cultural rules of interaction, linguists, and nonverbal communication. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>COMM 50</td>
<td>3.0</td>
<td>Elements of Oral Interpretation 3.4 hours lecture Grading: letter grade or pass/no pass Formerly SP 50. The basic principles of oral communication are explored through oral reading of prose, poetry and dramatic literature. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>COMM 60</td>
<td>3.0</td>
<td>Elements of Argumentation and Debate 3.4 hours lecture Grading: letter grade or pass/no pass Formerly SP 60. The nature, functions, forms, and contexts of argumentation and debate are explored and applied to both formal and informal classroom debates. An added appreciation for the role of advocacy and reasoning in a free society is examined. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>CISCO 250</td>
<td>3.0</td>
<td>Communications Cabling Installation 2.8 hours lecture, 1.7 hours laboratory Grading: letter grade This course introduces students to the basic skills and knowledge required for employment as a network wiring installer. The course includes introductions to cabling tools, installation practices, color codes, copper-based cable systems, cable testing, workplace safety, and the National Electrical Code (NEC) as it applies to network wiring.</td>
</tr>
</tbody>
</table>
CISCO 251 3.0 units
Introduction to Networking
2.8 hours lecture, 1.7 hours laboratory
Grading: letter grade
This is the first course in a sequence of four to prepare students to pass the certification exam required to become a Cisco Certified Networking Associate (CCNA). The course includes introductions to networking devices, IP Addressing, routing, switching, media and design, topology, cabling, electricity, electronics and network management. The instruction is based on the Cisco Networking Academy curriculum. Formerly COMIS 1 and CAOTC 211. The course is designed for students to develop current computer information competency. It covers basic use of hardware, Internet knowledge and skills, word processing, spreadsheet, digital data presentations, and communications applications. This course satisfies the technology component of the Information Competency graduation requirement. Upon successful completion of this course, students will be given a voucher to sit for the Internet and Computing Core (IC3) industry certification exam.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

COSA 5 3.0 units
Microsoft Windows Operating System
3.4 hours lecture
Grading: letter grade or pass/no pass
Formerly CAOTC 31A and COSA 5AD. Students will learn basic to advanced features and concepts of the Microsoft Windows operating system. This course provides students with an understanding of computer hardware basics, functions and features of Windows, Internet technologies, email, monitoring and tracking system performance, and controlling computer security. Through hands-on practice, students will learn to use Windows programs such as Windows Explorer, Internet Explorer, Media Player, Movie Maker, Live Messenger, Photo Gallery, Word Pad, and Paint. This course satisfies the technology portion of the information competency requirement.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

CISCO 252 3.0 units
Routing and Access Control
2.8 hours lecture, 1.7 hours laboratory
Prerequisite: CISCO 251
Grading: letter grade
This is the second course in a sequence of four to prepare students to pass the certification exam required to become a Cisco Certified Networking Associate (CCNA). The course includes OSI layers 1-7, local vs. wide area networks, TCP/IP, IP addressing, routing, router components and configuration of the Cisco IOS, routing protocols and access control lists. The instruction is based on the Cisco Networking Academy curriculum.

CISCO 253 3.0 units
Cisco Networking III, LAN
2.8 hours lecture, 1.7 hours laboratory
Prerequisite: CISCO 252
Grading: letter grade
This is the third course in a sequence of four to prepare students to pass the certification exam required to become a Cisco Certified Networking Associate (CCNA). The course includes EIGRP and OSPF routing, LAN switching, VLAN and LAN design. The instruction is based on the Cisco Networking Academy curriculum.

CISCO 254 3.0 units
WAN’s and Remote Access
2.8 hours lecture, 1.7 hours laboratory
Prerequisite: CISCO 253
Grading: letter grade
This is the fourth course in a sequence of four to prepare students to pass the certification exam required to become a Cisco Certified Networking Associate (CCNA). The course includes IP address conservation, VLSM, wide area network design, configuration of PPP, ISDN and Frame relay protocols. The instruction is based on the Cisco Networking Academy curriculum.

COSA 15 4.0 units
Microsoft Excel for Windows
4.5 hours lecture
Recommended Preparation: COSA 1 or type 45 wpm
Grading: letter grade or pass/no pass
Formerly CAOTC 41E and COSA 15AD. This course covers beginning, intermediate, and advanced spreadsheet concepts using Microsoft Excel and is for anyone working (or wanting to work) in a setting where numeric data is collected, maintained, analyzed, manipulated, and presented. Excel has many applications in business, education, and government as well as personal and home use. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

COSA 1 1.0 unit
Computer Information Competency
1.1 hours lecture, 1.1 hours laboratory
Grading: letter grade or pass/no pass
Formerly COMIS 1 and CAOTC 211. The course is designed for students to develop current computer information competency. It covers basic use of hardware, Internet knowledge and skills, word processing, spreadsheet, digital data presentations, and communications applications. This course satisfies the technology component of the Information Competency graduation requirement. Upon successful completion of this course, students will be given a voucher to sit for the Internet and Computing Core (IC3) industry certification exam.
Transfer Status: Transferable to CSU Only; see counselor for limitations.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSA 20</td>
<td>3.0</td>
<td>Microsoft PowerPoint for Windows</td>
<td>3.4 hours lecture; Recommended Preparation: COSA 1; Grading: letter grade or pass/no pass; Formerly CAOTC 44D and COSA 20AD. This class provides a thorough exploration of presentation graphics software. Through hands-on practice, students learn to combine text and graphic images to develop computerized slide shows, transparencies, charts, and printed materials for group presentations. Students also create presentations with animations and audio, publish presentations for web and CD, use work group collaboration features, and integrate with other programs. In the research component, students create presentations based on information gathered from electronic sources. This course satisfies the technology component of the Information Competency graduation requirement. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam.</td>
</tr>
<tr>
<td>COSA 25</td>
<td>4.0</td>
<td>Microsoft Access for Windows</td>
<td>4.5 hours lecture; Recommended Preparation: COSA 1; Grading: letter grade or pass/no pass; Formerly CAOTC 47A and COSA 25AD. This class provides an introduction to Microsoft Access, a computerized relational database management system. Through hands-on practice, students learn to create and modify tables, queries, reports, forms, data access pages, macros, and modules. Students will also learn to share information by integrating Access with data and other applications. This course satisfies the technology component of the Information Competency graduation requirement. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam.</td>
</tr>
<tr>
<td>COSA 30</td>
<td>3.0</td>
<td>Introduction to Computers</td>
<td>3.4 hours lecture; Recommended Preparation: COSA 1; Grading: letter grade or pass/no pass; Formerly CAOTC 34. This is a computer literacy course designed to familiarize the learner with a variety of computer tools and computer concepts with emphasis on utilizing Office Suite programs. This course provides an introduction to the use of computers, common software programs, peripherals, and social media. Students are instructed in the use of a word processor, spreadsheet, presentation tools, and internet applications. This course satisfies the technology component of the Information Competency graduation requirement. Upon successful completion of this course, students will be given a voucher to sit for the Internet and Computing Core (IC3) industry certification exam.</td>
</tr>
<tr>
<td>COSA 35</td>
<td>4.0</td>
<td>Microsoft Office</td>
<td>4.5 hours lecture; Recommended Preparation: COSA 1; Grading: letter grade or pass/no pass; Formerly CAOTC 35. Microsoft Office is an introductory, hands-on course that teaches students to create, edit, format, and integrate a wide range of business documents. Students will use Microsoft Word, Excel, PowerPoint, and Access. Computer hardware basics and the use of the internet for business and research purposes will also be covered. This course satisfies the technology component of the Information Competency graduation requirement. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>COSA 40</td>
<td>4.0</td>
<td>Microsoft Office — Advanced</td>
<td>4.5 hours lecture; Recommended Preparation: COSA 35; Grading: letter grade or pass/no pass; Formerly CBIS 6C and CAOTC 235. Microsoft Office—Advanced is an advanced hands-on course. Students will process a wide range of complex assignments requiring advanced formatting and functionality. Students will use Microsoft Word, Excel, Access, and PowerPoint. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>COSA 45</td>
<td>2.0</td>
<td>Introduction to the Internet</td>
<td>2.3 hours lecture; Grading: letter grade or pass/no pass; Formerly CAOTC 45 and CBIS 206C. This course is a comprehensive overview of Internet and Web concepts that have changed the way people find information, communicate with others, and conduct business activities. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>COSA 50</td>
<td>4.0</td>
<td>Intro to IT Concepts &amp; Applications</td>
<td>4.5 hours lecture; Recommended Preparation: COSA 1; Grading: letter grade or pass/no pass; Formerly CBIS 6A. This course is an introduction to information systems and the common use of office applications. Internet, Word processing, spreadsheets, databases, presentation software, and basic internet use will be covered. Spreadsheet use for business will be emphasized. This course satisfies the technology portion of the Information Competency graduation requirement. Upon successful completion of this course, students will be given a voucher to sit for the Internet and Computing Core (IC3) industry certification exam. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
</tbody>
</table>
### Courses of Instruction

**COSA 210**  
Intro to Project Management for IT  
3.4 hours lecture  
Recommended Preparation: COSA 50  
Grading: letter grade or pass/no pass  
Formerly CBIS 436A. This class is an introduction to IT project management. Popular project management software will be introduced. In addition, the class will focus on the methods and techniques for managing technology projects as well as preparing students for the CompTIA’s IT Project+ certification.

**COSA 214**  
Records Management and Filing  
2.3 hours lecture  
Grading: letter grade or pass/no pass  
Formerly CAOTO 214. Students in this course are introduced to the expanding area of records and information management and technologies which integrate the computer with other automated records systems. They examine the Association of Records Managers and Administrators (ARMA International) filing standards to alphabetically store and retrieve physical and electronic systems. This includes alphabetic, subject, numeric, and geographic storage methods.

**COSA 215**  
Microsoft Outlook for Windows  
3.4 hours lecture  
Recommended Preparation: COSA 1  
Grading: letter grade or pass/no pass  
Formerly CAOTC 215A and COSA 215AD. This course provides comprehensive instruction in desktop management using Microsoft Outlook. Topics include how to send and receive e-mail, manage contacts, plan and track tasks, schedule the calendar, and integrate Outlook with other applications and the internet. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam.

**COSA 270**  
Help Desk Concepts  
2.3 hours lecture  
Recommended Preparation: COSA 50  
Grading: letter grade or pass/no pass  
Formerly BCOM 270. This course provides an introduction to help desk concepts and procedures which include help desk operations, technology and information components, as well as help desk setup, customer support, and resources.

**COMPUTER AND OFFICE STUDIES, KEYBOARDING(COSK)**

**COSK 200**  
Beginning Keyboarding and Document Production  
2.3 hours lecture, 3.4 hours laboratory  
Grading: letter grade or pass/no pass  
Formerly CAOTT 200. Students in this course develop computer typing skills for business and personal use with emphasis on proper technique, speed, and accuracy. Students create correspondence, business reports, academic reports, tables, resumes, and other employment documents. This course satisfies the technology component of the Information Competency graduation requirement. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam.

**COSK 202**  
Advanced Keyboarding and Document Production  
2.3 hours lecture, 3.4 hours laboratory  
Recommended Preparation: COSK 200 or type 35 wpm.  
Grading: letter grade or pass/no pass  
Formerly CAOTT 201. Students in this course develop computer typing skills for business and personal use with emphasis on proper technique, speed, and accuracy. Students create correspondence, business reports, academic reports, tables, resumes, and other employment documents. This course satisfies the technology component of the Information Competency graduation requirement. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Office Specialist (MOS) industry certification exam.

**COSK 209**  
Speed/Accuracy Bldg. for Typists  
1.1 hours lecture, 1.1 hours laboratory  
Recommended Preparation: COSK 200 or COSK 233 or type 25 wpm  
Grading: letter grade or pass/no pass  
Formerly CAOTT 209AB and COSK 209AD. This intermediate-level course helps to increase computer keyboarding speed and accuracy. Students receive individual analysis, tips on improving their technique, and guided practice.

**COSK 233**  
Computer Keyboarding Skills  
1.1 hours lecture, 1.1 hours laboratory  
Grading: letter grade or pass/no pass  
Formerly CAOTT 233 and COSK 233AD. This course is designed for the person who desires to develop touch control of the computer keyboard and numeric keypad for business or personal use. Emphasis is placed on proper typing and inputting techniques and building basic speed and accuracy.

**COSK 250**  
Data Processing  
2.3 hours lecture, 3.4 hours laboratory  
Recommended Preparation: COSK 200 or type 30 wpm  
Grading: letter grade or pass/no pass  
Formerly COSK 250A/B. This course prepares students for careers requiring the use of a computer to enter, compile, and interpret information. Keying skills are developed utilizing multiple computer applications with a speed goal of 9,000 keystrokes/hour with 98% accuracy and the objective of successfully entering, validating, manipulating, and analyzing data. The opportunity to practice the skills in a simulated workplace situation will be provided, as well as techniques for finding and avoiding errors.
### Courses of Instruction

**COMPUTER AND OFFICE STUDIES, NETWORKING, AND OS (COSN)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
<th>Recommended Preparation</th>
<th>Grading:</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSN 3</td>
<td>4.0</td>
<td>Operating Systems: Software and Hardware</td>
<td>COSA 50</td>
<td>letter</td>
<td>4.5</td>
</tr>
<tr>
<td>COSN 5</td>
<td>4.0</td>
<td>Computer Technician Hardware Basics</td>
<td>COSA 50</td>
<td>letter</td>
<td>4.5</td>
</tr>
<tr>
<td>COSN 10</td>
<td>4.0</td>
<td>Networking Fundamentals</td>
<td>COSA 50</td>
<td>letter</td>
<td>4.5</td>
</tr>
<tr>
<td>COSN 200</td>
<td>2.0</td>
<td>Wireless Communications</td>
<td>COSN 10</td>
<td>letter</td>
<td>2.3</td>
</tr>
<tr>
<td>COSN 205</td>
<td>4.0</td>
<td>Unix/Linux Fundamentals</td>
<td>COSA 50</td>
<td>letter</td>
<td>4.5</td>
</tr>
<tr>
<td>COSN 210</td>
<td>4.0</td>
<td>LINUX Server Administration</td>
<td>COSN 205</td>
<td>letter</td>
<td>4.5</td>
</tr>
<tr>
<td>COSN 215</td>
<td>4.0</td>
<td>LINUX Networking and Security</td>
<td>COSN 205</td>
<td>letter</td>
<td>4.5</td>
</tr>
<tr>
<td>COSN 225</td>
<td>3.0</td>
<td>Microsoft Windows Client</td>
<td>COSA 50</td>
<td>letter</td>
<td>3.4</td>
</tr>
<tr>
<td>COSN 230</td>
<td>4.0</td>
<td>Microsoft Windows Server</td>
<td>COSN 225</td>
<td>letter</td>
<td>4.5</td>
</tr>
</tbody>
</table>

**Computer and Office Studies, Networking, and OS (COSN)**

- **COSN 3**: Operating Systems: Software and Hardware
  - 4.5 hours lecture
  - Recommended Preparation: COSA 50
  - Grading: letter grade

- **COSN 5**: Computer Technician Hardware Basics
  - 4.5 hours lecture
  - Recommended Preparation: COSA 50
  - Grading: letter grade

- **COSN 10**: Networking Fundamentals
  - 4.5 hours lecture
  - Recommended Preparation: COSA 50
  - Grading: letter grade

- **COSN 200**: Wireless Communications
  - 2.3 hours lecture
  - Corequisite: COSN 10
  - Grading: letter grade or pass/no pass

- **COSN 205**: Unix/Linux Fundamentals
  - 4.5 hours lecture
  - Recommended Preparation: COSA 50
  - Grading: letter grade or pass/no pass

- **COSN 210**: LINUX Server Administration
  - 4.5 hours lecture
  - Recommended Preparation: COSN 205
  - Grading: letter grade or pass/no pass

- **COSN 215**: LINUX Networking and Security
  - 4.5 hours lecture
  - Recommended Preparation: COSN 205 or COSN 210
  - Grading: letter grade or pass/no pass

- **COSN 225**: Microsoft Windows Client
  - 3.4 hours lecture
  - Recommended Preparation: COSA 50
  - Grading: letter grade or pass/no pass

- **COSN 230**: Microsoft Windows Server
  - 4.5 hours lecture
  - Recommended Preparation: COSN 225
  - Grading: letter grade or pass/no pass

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Formerly CBIS 3. This course covers the command-line operating systems and Windows operating systems maintenance skills required for A+ certification expected of computer technicians. (See COSN 5 for the hardware portion of A+).

Transfer Status: Transferable to CSU Only; see counselor for limitations.

Formerly CBIS 227. This course trains students to use the Linux operating system as an alternative to other operating systems for managing files, running applications, and developing application procedures. Course topics include an overview of basic operating system concepts, a history of UNIX and its influence on modern operating systems, basic internal operating system structure, details of UNIX/Linux file system structures, pipes, filters and redirection, scripts, processes, shells, and UNIX/Linux utilities. Completion of this course qualifies students for COSN 210, Linux System Administration.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

Formerly CBIS 223. This course trains students to use the Linux operating system as an alternative to other operating systems for managing files, running applications, and developing application procedures. Course topics include an overview of basic operating system concepts, a history of UNIX and its influence on modern operating systems, basic internal operating system structure, details of UNIX/Linux file system structures, pipes, filters and redirection, scripts, processes, shells, and UNIX/Linux utilities. Completion of this course qualifies students for COSN 210, Linux System Administration.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

Formerly CBIS 235A and COSN 210AD. This course is an in depth study of the Linux operating system. The focus is on Linux installation and administration. The course will also examine the theoretical concepts common to all Linux systems that have increased its popularity. The course will also take the form of a practical hands-on approach to Linux to prepare students for the CompTIA Linux+ or LPI certifications.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

Formerly CBIS 226. In this class, students will install, configure and administer Windows Server Operating System. The class will prepare the student to take the corresponding MTA Certification Exam.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

Formerly CBIS 235B and COSN 215AD. This is an advanced Linux operating system course. The focus is on Linux networking and security. The course covers networking technologies and protocols, network configuration and the use of command-line and graphical utilities. Network security issues such as firewalls, VPNs, and utilities such as nmap, ethtool, and the SAINT profiling tool will be presented.

Transfer Status: Transferable to CSU Only; see counselor for limitations.
COSP 250  3.0 units
Introduction to Cloud Computing
4.5 hours lecture
Recommended Preparation: COSA 50
Grading: letter grade or pass/no pass
This course educates students about cloud deployment and service models, cloud infrastructure, and key considerations in migrating to cloud computing. The course covers technologies required to build classic, virtualized, and cloud data center environments. These technologies include computing, storage, networking, desktop, and application virtualization. Additional focus areas are security, recovery, and management. Students will learn about the steps involved and key considerations in transitioning from the current data center model to a cloud computing environment.

COSP 36  4.0 units
Systems Analysis and Design
4.5 hours lecture
Recommended Preparation: COSA 50 and COSP 38
Grading: letter grade or pass/no pass
Formerly CBIS 36. This course covers the broad concepts and methods of system analysis and design, while emphasizing the latest object-oriented techniques. Topics include development processing models, conceptual and physical design, system implementation and maintenance techniques, project management, collaborative communication skills, and the responsibilities of systems analysts.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

COSP 38  4.0 units
Database Concepts
4.5 hours lecture
Recommended Preparation: COSA 50
Grading: letter grade or pass/no pass
Formerly CBIS 38. This course covers concepts and technologies of database systems. Topics include data modeling, design, and the implementation of relational databases; Structured Query Language-SQL; concurrency control; distributed database systems; data warehousing; Web enabled database technologies; and the functions of database administration. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Technology Associate (MTA) industry certification exam.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

COSP 201  1.0 unit
Mobile App Development
1.7 hours lecture
Recommended Preparation: COSA 1
Grading: letter grade or pass/no pass
Prerequisite: CS 21A or CS 11
This course is an introduction to building apps for Android devices, including Android phones and tablets, using MIT App Inventor or other App development tools. This course does not require previous programming skills. The student will learn how to design and develop an app and use will use visual program blocks to specify the app’s behavior. Students will do several assignments intended to teach app development followed by a final project.

COSP 230  3.0 units
Android App Development in Java
3.4 hours lecture
Prerequisite: CS 21A or CS 11
Grading: letter grade or pass/no pass
This is a course that will teach the professional level of skills and practices needed to develop and publish a variety of types of applications or Apps on Android phones and tablets. Students should be able to design, develop, and test their own professional quality Apps by the end of the course.

COSP 238  3.0 units
Advanced Database Concepts
3.4 hours lecture
Recommended Preparation: COSP 38
Grading: letter grade or pass/no pass
Formerly CBIS 246AD. In this course, students will learn about the major areas of database administration: installation and maintenance of MS SQL Server; T-SQL programming; database performance, logging, backup,
recovery, security and replication; and the role of a database administrator. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Technology Associate (MTA) industry certification exam.

**COMPUTER AND OFFICE STUDIES, SECURITY (COSS)**

**COSS 270**

Information Security Fundamentals

1.0 unit

1.1 hours lecture

Grading: letter grade or pass/no pass

Formerly CBIS 270. In this course, you will learn how to protect yourself from identity theft and personal computer attacks. This course is for anyone with basic computer skills. Learn how to protect yourself from hackers, phishers, and anyone else who is trying to “snoop” into your personal information.

**COSS 271**

Network Security Fundamentals

3.0 units

3.4 hours lecture

Recommended Preparation: COSN 10 and COSS 270

Grading: letter grade or pass/no pass

Formerly CBIS 271. Network Security Fundamentals provides a comprehensive overview of network security and prepares students to take the CompTIA Security + certification exam. This course covers general security concepts, communication network security, infrastructure security, cryptography basics, operational/organizational security, and computer forensics. Upon successful completion of this course, students will be given a voucher to sit for the Microsoft Technology Associate (MTA) industry certification exam.

**COSS 272**

Computer Forensics and Investigation

3.0 units

3.4 hours lecture

Recommended Preparation: COSN 5

Grading: letter grade or pass/no pass

This course offers an introduction into computer forensics, investigating computer crimes and data recovery. Topics covered in this course include a process for investigating cyber-crime and procedures for collecting, analyzing, recovering and preserving forensic evidence.

**COSS 273**

Ethical Hacking and Countermeasures

4.0 units

4.5 hours lecture

Recommended Preparation: COSS 271

Grading: letter grade or pass/no pass

This course will prepare students to perform network hacking and implement appropriate countermeasures. Students will also explore the ethical questions surrounding network and system penetration. This course covers topics such as using network penetration tools, techniques for identifying system vulnerabilities and exploiting those vulnerabilities to compromise systems and data.

**COMPUTER AND OFFICE STUDIES, WEB DESIGN (COSW)**

**COSW 10**

Beginning Website Development

4.0 units

4.5 hours lecture

Recommended Preparation: COSA 50

Grading: letter grade or pass/no pass

Formerly CBIS 207AD and CBIS 211AD and COSW 10AD. This course introduces the fundamental skills needed to design, develop and publish websites using industry standard software. Students will create websites using HTML and CSS and incorporate web design principles such as site planning, usability and accessibility standards. Topics covered include formatting text, creating hyperlinks, building navigation menus, inserting images and other media, creating tables and forms, using CSS for layout and design, creating responsive websites and working with content management systems. Students should have completed a basic computer concepts course such as COSA 1 as preparation for this course.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

**COSW 20**

Dynamic HTML Web Construction

4.0 units

4.5 hours lecture

Recommended Preparation: COSW 10

Grading: letter grade or pass/no pass

Formerly CBIS 207E. This course is a web page construction course focusing on emerging HTML standards, XML, JavaScript and other scripting languages.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

**COSW 200**

Introduction to Java Script

4.0 units

4.5 hours lecture

Recommended Preparation: COSA 50

Grading: letter grade or pass/no pass

This course provides an overview of client-side programming using JavaScript, variables, arrays, functions, event handlers, objects, form validation, cookies, and the DOM. Introduces Web 2.0 technologies, Ajax (Asynchronous JavaScipt and XML and JSON), and it is an introduction to using popular libraries including jQuery.

**COSW 220**

Database Programming with PHP/MySQL

3.0 units

3.4 hours lecture

Recommended Preparation: COSW 10

Grading: letter grade or pass/no pass

Formerly CBIS 420. This course introduces PHP & MySQL, one of the most popular technology combinations for developing interactive Web sites. It is designed to introduce beginning database driven website programming concepts for personal and small business needs. It is recommended that students coming into this course have a beginning knowledge of Web development concepts including HTML and CSS.
Courses of Instruction

COSW 221 3.0 units
Database Programming with PHP/MySQL II
3.4 hours lecture
Prerequisite: COSW 220
Recommended Preparation: COSW 10 and COSP 38
Grading: letter grade or pass/no pass
Formerly COSW 251. This is the second course in PHP programming with a MySQL database for developing data driven web sites. Students can expect to write PHP code to create real world database applications that allow for database record creation, update, deletion and retrieval. Emphasis will be placed on creating web forms, searching databases, and session management.

COSW 230 3.0 units
Ruby on Rails Web Development
3.4 hours lecture
Recommended Preparation: COSW 20, CS 11, CS 21A, COSP 8, COSP 38, or COSP 216.
Grading: letter grade or pass/no pass
Formerly CBIS 430. This course is an introduction to using Ruby on Rails (or RoR) a dynamic web development framework. Students will be taught programming in Ruby language and MySQL management. Installation, development, testing, and the structure of the Ruby on Rails framework will be covered. This course is intended for web developers and others interested in getting a quick start in this technology.

COSW 240 3.0 units
Website Development with Drupal
3.4 hours lecture
Recommended Preparation: COSW 220
Grading: letter grade or pass/no pass
Formerly CBIS 206C. Students will learn to create sophisticated, dynamic, and interactive websites using Drupal, a Content Management System (CMS). Topics include installation of Drupal, managing user accounts, customizing modules, designing themes, setting up blogs and discussion forums, creating site navigation, site administration, and the use of modules, blocks, nodes, content types and fields.

COMPUTER PROFICIENCY FOR ACADEMIC SUCCESS (CPAS)

CPAS 2 3.0 units
Critical Thinking Using Computers
3.4 hours lecture
Grading: letter grade or pass/no pass
This course will explore the various ways computer technology can be used to enhance critical thinking and information literacy skills. The student will learn to utilize multiple software programs critically to gather, diagnose, synthesize, and present information. Students will develop a fundamental understanding of critical thinking skills such as deductive and inductive reasoning, scientific reasoning, argument analysis and development in the context of computer technology.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

CS 11 4.0 units
Computer Programming: C++ I
4.5 hours lecture
Prerequisite: MATH 110 or MATH 110B or first year high school algebra of a grade of C or better.
Recommended Preparation: COSP 7 and COSA 50
Grading: letter grade
This is an introductory course in the C++ programming language, a problem solving technique used in modern software technology. The features of C++ that support the development of small and large systems are covered, thus providing a method for prototyping the commercial software development in business and industry.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Title</th>
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<tbody>
<tr>
<td>CS 12</td>
<td>4.0</td>
<td>Computer Programming: C++ II</td>
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<tr>
<td></td>
<td></td>
<td>4.5 hours lecture</td>
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<td></td>
<td></td>
<td>Prerequisite: CS 11</td>
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<td>Grading: letter grade</td>
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<td></td>
<td>A second course in C++ includes: further explanation of C++ areas</td>
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<td></td>
<td></td>
<td>(data types, input/output, data structures, pointers and accessing</td>
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<tr>
<td></td>
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<td>files) and object-oriented programming (object hierarchy, operator</td>
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<td>overloading and streams).</td>
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<td><strong>Transfer Status:</strong> Transferable to UC, CSU; see counselor for</td>
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<tr>
<td></td>
<td></td>
<td>limitations.</td>
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<tr>
<td>CS 21</td>
<td>4.0</td>
<td>Java: Computer Science 1</td>
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<td></td>
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<td>4.5 hours lecture</td>
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<td></td>
<td>Recommended Preparation: COSP 7, COSA 50, MATH 110/110B or First year</td>
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<td>high school algebra</td>
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<td>Grading: letter grade</td>
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<td></td>
<td>This course introduces Computer Science and the java</td>
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<td>programming language. It will cover the basics of programming and</td>
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<td>software design using a procedure oriented approach.</td>
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<td><strong>Transfer Status:</strong> Transferable to UC, CSU; see counselor for</td>
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<td>limitations.</td>
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<tr>
<td>CS 22</td>
<td>3.0</td>
<td>Data Structures and Algorithms</td>
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<td></td>
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<td>3.4 hours lecture</td>
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<td></td>
<td></td>
<td>Prerequisite: CS 21 or CS 11</td>
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<td>Grading: letter grade</td>
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<td></td>
<td>This course covers the application of software engineering techniques</td>
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<td>for the design and development of large programs, and will include</td>
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<td></td>
<td>the topics of data abstraction and structures with their associated</td>
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<td></td>
<td></td>
<td>algorithms.</td>
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<td><strong>Transfer Status:</strong> Transferable to UC, CSU; see counselor for</td>
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<td></td>
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<td>limitations.</td>
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<tr>
<td>CS 51</td>
<td>4.0</td>
<td>Introduction to Computer Architecture</td>
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<td>4.5 hours lecture</td>
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<td></td>
<td></td>
<td>Prerequisite: COSP 8 or CS 11 or CS 21</td>
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<td></td>
<td>Grading: letter grade</td>
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<td></td>
<td>This course covers the organization and behavior of real computer</td>
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<td>systems at the assembly-language level. The mapping of statements</td>
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<td>and constructs in a high-level language onto sequences of machine</td>
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<td></td>
<td>instructions is studied, as well as the internal representation of</td>
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<td>simple data types and structures. Numerical computation is examined,</td>
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<td>noting the various data representation errors and potential procedural</td>
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<td>errors. <strong>Transfer Status:</strong> Transferable to UC, CSU; see counselor</td>
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<td>for limitations.</td>
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<tr>
<td>CS 61</td>
<td>4.0</td>
<td>Discrete Structures</td>
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<td>4.5 hours lecture</td>
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<td></td>
<td></td>
<td>Prerequisite: COSP 8 or CS 11 or CS 21</td>
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<td></td>
<td>Grading: letter grade</td>
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<td>This course is an introduction to the discrete structures used in</td>
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<td></td>
<td>Computer Science with an emphasis on their applications. Topics</td>
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<td>covered include: Functions, Relations and Sets; Basic Logic; Proof</td>
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<td>Techniques; Basics of Counting; Graphs and Trees; and Discrete</td>
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<td></td>
<td>Probability.</td>
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<td><strong>Transfer Status:</strong> Transferable to CSU Only; see counselor for</td>
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<tr>
<td></td>
<td></td>
<td>limitations.</td>
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<tr>
<td>CONST 201A</td>
<td>3.0</td>
<td>Mathematics for the Trades</td>
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<td></td>
<td></td>
<td>3.4 hours lecture</td>
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<td>Grading: letter grade</td>
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<td>This course covers a study of mathematics used in construction</td>
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<td>trades. Topics in arithmetic, fractions, decimals, percents, graphing,</td>
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<td>measurement and introduction to algebra are covered. This course is</td>
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<td>the same as ELECT 202.</td>
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<tr>
<td>CONST 201B</td>
<td>4.0</td>
<td>Algebra and Trigonometry for the Trades</td>
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<td>4.5 hours lecture</td>
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<td></td>
<td></td>
<td>Prerequisite: MATH 805 or MATH 815 or CONST 201A</td>
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<td></td>
<td>Grading: letter grade</td>
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<td>This course will present basic algebra and trigonometry and their</td>
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<td>application to the solution of practical problems in technical (</td>
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<td></td>
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<td>mechanical, electrical, construction) fields.</td>
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<tr>
<td>CONST 203B</td>
<td>2.0</td>
<td>OSHA Safety Standards for General Industry</td>
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<td></td>
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<td>2.3 hours lecture</td>
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<td></td>
<td>Grading: pass/no pass</td>
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<td>This course covers OSHA policies, procedures, and standards, as well</td>
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<td>as industrial safety and health principles. Topics include scope and</td>
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<td>application of the OSHA General Industry safety standards. Special</td>
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<td>emphasis is placed on those areas that are the most hazardous, using</td>
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<td>OSHA standards as a guide. Upon successful course completion, the</td>
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<td>student will receive an OSHA 30 Hour General Industry Safety Outreach</td>
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<td></td>
<td>Training Completion Card.</td>
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<tr>
<td>CONST 203C</td>
<td>2.0</td>
<td>OSHA Safety and Health Regulations for Longshoring</td>
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<tr>
<td></td>
<td></td>
<td>2.3 hours lecture</td>
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<td></td>
<td></td>
<td>Grading: pass/no pass</td>
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<tr>
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<td></td>
<td>This course covers OSHA safety and health regulations for longshoring.</td>
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<td>Topics include scope and application of the OSHA safety standards in</td>
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<td>the maritime environment. Special emphasis is placed on those areas</td>
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<td>that are the most hazardous, using OSHA standards as a guide. Upon</td>
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<td>successful course completion, the student will receive an OSHA 30</td>
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<td>Hour Maritime Industry Outreach Training Program Completion Card.</td>
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<tr>
<td>CONST 206</td>
<td>3.0</td>
<td>Workplace Competency Skills</td>
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<tr>
<td></td>
<td></td>
<td>3.4 hours lecture</td>
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<td></td>
<td></td>
<td>Grading: letter grade</td>
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<td></td>
<td></td>
<td>This is a course to prepare students with the necessary employment</td>
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<td>skills for a career in the construction industry. Topics covered will</td>
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<td>include core soft skills, including how to communicate effectively,</td>
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<td>become a team player, resolve problems and conflicts, and succeed in</td>
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<td>a diverse and changing workforce. Students will learn vital workplace</td>
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<td>skills through designed exercises as well as how employers evaluate</td>
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<td>these skills in their employees. Employment tests, and job</td>
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<td>interviews will be covered.</td>
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<td>Course Code</td>
<td>Units</td>
<td>Course Title</td>
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<tr>
<td>CONST 207</td>
<td>3.0</td>
<td>Blueprint Reading for Construction</td>
</tr>
<tr>
<td>CONST 208</td>
<td>1.0</td>
<td>Apprenticeship Exam Preparation</td>
</tr>
<tr>
<td>CONST 210</td>
<td>4.0</td>
<td>Construction Technology Lab</td>
</tr>
<tr>
<td>CONST 298C</td>
<td>4.0</td>
<td>Construction Technology Lab</td>
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<tr>
<td>CONST 298D</td>
<td>3.0</td>
<td>Workplace Competency Skills</td>
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<tr>
<td>CONST 298F</td>
<td>1.0</td>
<td>Apprenticeship Exam Preparation</td>
</tr>
<tr>
<td>CONST 298G</td>
<td>3.0</td>
<td>Blueprint Reading for Construction Trade</td>
</tr>
<tr>
<td>COUNS 1</td>
<td>1.0</td>
<td>Orientation for College Success</td>
</tr>
<tr>
<td>COUNS 2</td>
<td>3.0</td>
<td>Making a Difference With Mentoring</td>
</tr>
</tbody>
</table>
| COUNS 7    | 3.0   | College and Professional Success                                                                       | 3.4   | grade   | Students will compare and analyze student development theories for the purpose of defining internal and external obstacles to career and academic success. Throughout...
the course, students will practice, apply and evaluate integrative exercises related to academic achievement, self-exploration, career development and professional growth and development.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

<table>
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<th>Course Code</th>
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<tbody>
<tr>
<td><strong>COUNS 48</strong></td>
<td>1.0 unit</td>
</tr>
<tr>
<td><strong>Career Exploration</strong></td>
<td>1.1 hours lecture</td>
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<tr>
<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>This course is designed for students who are undecided about their career and/or educational goals. It provides an introduction to a career decision making model including personal assessment, self-understanding, career and labor market research, integration of information and goal setting. The course emphasizes one’s self-description as it impacts career choices.</td>
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*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td><strong>COUNS 49</strong></td>
<td>2.0 units</td>
</tr>
<tr>
<td><strong>College Study Techniques</strong></td>
<td>2.3 hours lecture</td>
</tr>
<tr>
<td>Grading: letter grade or pass/no pass</td>
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</tr>
<tr>
<td>This course is designed to teach students the important strategies for academic success and how to be confident college students. Course content will cover specific techniques and methods on effective time management, note taking, critical thinking skills, life skills, textbook reading and test taking skills. Students will identify their own individual learning styles through self-assessment and presented learning theories. Topics will be presented as a practical and applicable approach to specific strategies for gaining academic competency and achieving self-confidence for academic success.</td>
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<th>Course Code</th>
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<tr>
<td><strong>COUNS 49A</strong></td>
<td>1.0 unit</td>
</tr>
<tr>
<td><strong>College Study Techniques</strong></td>
<td>1.1 hours lecture</td>
</tr>
<tr>
<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>This is an introductory course designed to teach students important strategies for academic success. Course content will cover specific techniques such as effective time management plan, note taking skills, textbook reading and test taking skills. Students will identify their own learning styles and important factors to college success through self-assessment and interpretation.</td>
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*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

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<th>Course Code</th>
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<tr>
<td><strong>COUNS 50</strong></td>
<td>3.0 units</td>
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<tr>
<td><strong>Career Planning: A Life-Long Process</strong></td>
<td>3.4 hours lecture</td>
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<td>Grading: pass/no pass</td>
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<tr>
<td>This course presents a reflective model of the career planning process that integrates theory and practice applicable in a variety of situations over an individual’s life span. Through the study of various career planning and decision-making approaches, the course is designed to explore the importance of how psycho-social, physical and affective factors impact their own cognitive processes. Using self-evaluation instruments and self-discovery processes, students develop life-long learning skills which help them focus on pathways for academic and career satisfaction.</td>
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*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

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<th>Course Code</th>
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<tr>
<td><strong>CART 41</strong></td>
<td>3.0 units</td>
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<tr>
<td><strong>The Arts and Modern Man</strong></td>
<td>3.4 hours lecture</td>
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<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>This course serves as a humanities requirement and is an introduction to and exploration of the creative arts including art, film, music and the theatre arts for the general student. Each student is required to view and attend an exhibit and live performances related to the major areas of concentration in this course (art, music &amp; theatre).</td>
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</tbody>
</table>

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*
Courses of Instruction

CULINARY ARTS (CULAR)

CULAR 20  3.0 units
3.4 hours lecture
Grading: letter grade
Formerly CULAR 20AD. This course introduces students to food safety and sanitation issues facing professionals in the food and beverage industry. The course serves as a foundation for the entire Culinary/Baking Program by helping students ascertain a thorough understanding of food safety and sanitation. The course is based on regulatory code and covers major foodborne illnesses, standards, process controls, and food safety management systems, such as HACCP. To successfully complete the course, students are required to demonstrate knowledge by successfully passing a Nationally Accredited Food Protection Manager Certification Exam.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

CULAR 200  1.0 unit
Introduction to Chocolate
0.6 hour lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass
This course covers the history and production of chocolate, the techniques of baking with chocolate, and the production of chocolate desserts. It introduces fundamental principles of chocolate production, candies, decoration, tempering, processing and storage, molding of hollow forms, and pouring of flat surfaces.

CULAR 202  5.5 units
Intro to Culinary Skills & Principles
2.8 hours lecture, 11.3 hours laboratory, 0.3 hour supplemental learning
Prerequisite: CULAR 20 and TB Clearance
Grading: letter grade
The fundamental concepts, skills, and techniques involved in basic cookery are covered in this course: ingredients, cooking theories, preparation of stocks, mother sauces, and emulsions, knife skills, vegetables and starches, and meat and poultry prepared using basic cooking techniques (sautéing, roasting, poaching, braising, and frying). Students must pass a practical exam on a variety of cooking techniques. Students will also be required to attend 5 hours of Culinary Math Supplemental Learning Assistance in the LAC Multidisciplinary Success Center, L212.

CULAR 211  5.5 units
Intermed. Culinary Skills & Principles
2.8 hours lecture, 11.3 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A).
Grading: letter grade
This course provides students with skills and knowledge of the organization, equipment and responsibilities of the “cold kitchen”. Cold hors d’oeuvres, sandwiches, salads, and basic charcuterie items are taught. Reception foods and buffet arrangements are introduced. Students must pass a written and practical exam.

CULAR 212  5.5 units
Classical Cuisine
2.8 hours lecture, 11.3 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A) and (CULAR 211 or CULAR 213B).
Grading: letter grade
In this course students are introduced to the techniques, ingredients, methods, and spices unique to Classical European Cuisine. Classic principles and techniques in preparing course meals are practiced and emphasized.

CULAR 213A  1.5 units
Buffets and Catering
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 OR CULAR 213A) and (CULAR 211 or CULAR 213B).
Grading: letter grade
This course is designed to instruct students on various types and levels of food presentation and cooking. From large buffets to small intimate dinner events, students learn to develop menu items, select cooking methods, formulate presentation styles and control costs. This includes event planning, catering costing, and food preparation methodology.

CULAR 213B  1.0 unit
Introduction to Chocolate
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 OR CULAR 213A) and (CULAR 211 or CULAR 213B).
Grading: letter grade
This course provides the knowledge to understand the principles of vegetarian, vegan, raw food, and specialty cuisines. Topics will include how to combine non-meat proteins, prepare raw foods, and make substitutions for low fat, low sugar, gluten-free, and other allergy-based dietary restrictions.

CULAR 215  1.5 units
Buffets and Catering
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 OR CULAR 213A) and (CULAR 211 or CULAR 213B).
Grading: letter grade
This course is designed to instruct students on various types and levels of food presentation and cooking. From large buffets to small intimate dinner events, students learn to develop menu items, select cooking methods, formulate presentation styles and control costs. This includes event planning, catering costing, and food preparation methodology.

CULAR 216  3.0 units
World Cuisines: American Regional
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A).
Grading: letter grade
American Regional cuisine explores the use of indigenous ingredients in the preparation of traditional and contemporary American specialties from Hawaii to Florida, with stops in the Pacific Northwest, Texas, and New England along the way.

CULAR 217  3.0 units
Vegetarian & Specialty Cuisine
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A).
Grading: letter grade
This course provides the knowledge to understand the principles of vegetarian, vegan, raw food, and specialty cuisines. Topics will include how to combine non-meat proteins, prepare raw foods, and make substitutions for low fat, low sugar, gluten-free, and other allergy-based dietary restrictions.

CULAR 218  3.0 units
World Cuisines: Asian
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A).
Grading: letter grade
Students prepare, taste, serve, and evaluate traditional, regional dishes of the cuisines of India, the four regions of China, Japan, Vietnam, Thailand, and Indonesia. Importance will be placed on ingredients, flavor profiles, preparations, and techniques representative of these cuisines.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Hours</th>
<th>Prerequisites</th>
<th>Grading</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CULAR 219</td>
<td>3.0</td>
<td>Intro to Baking &amp; Pastry Skills/Princ</td>
<td>2.3</td>
<td>CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A).</td>
<td>letter</td>
<td>This course introduces the Culinary Arts student to baking &amp; pastry ingredients, equipment, and procedures in order to build a repertoire of basic baking &amp; pastry techniques for the restaurant and hotel industries. This includes the production of basic breads, pies, cakes, ice creams, sauces, and chocolate culminating in plated desserts.</td>
</tr>
<tr>
<td>CULAR 222A</td>
<td>4.0</td>
<td>Advanced Restaurant Operations</td>
<td>4.5</td>
<td>CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A) and (CULAR 211 or 213B) and (CULAR 218 and CULAR 219).</td>
<td>letter</td>
<td>This course emphasizes the influences and ingredients that create the unique character of Mediterranean cuisine. Students prepare, taste, serve, and evaluate traditional, regional dishes of countries in the Mediterranean region. Ingredients, flavor profiles, and techniques representative of these cuisines will be stressed.</td>
</tr>
<tr>
<td>CULAR 222B</td>
<td>4.0</td>
<td>Advanced Restaurant Practicum</td>
<td>13.5</td>
<td>CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A) and (CULAR 211 or 213B) and (CULAR 218 and CULAR 219).</td>
<td>letter</td>
<td>This capstone course covers the fundamental principles of front- and back-of-house operations in a restaurant setting including: equipment and station set-up, cost control, inventory, menu development, Point of Sale (POS) system, dining room service, hospitality management, and marketing.</td>
</tr>
<tr>
<td>CULAR 225</td>
<td>2.0</td>
<td>Product and Menu Development</td>
<td>2.3</td>
<td></td>
<td>letter</td>
<td>This course provides the basic knowledge of food composition, ingredients, and their functions. Students will learn how to create food products and develop menus by blending flavors with various cooking and baking techniques or by ingredient substitution.</td>
</tr>
<tr>
<td>CULAR 230</td>
<td>3.0</td>
<td>Baking &amp; Pastry Skills for CUL Students</td>
<td>2.3</td>
<td>CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A).</td>
<td>letter</td>
<td>This course introduces the Culinary Arts student to baking &amp; pastry ingredients, equipment, and procedures in order to build a repertoire of basic baking &amp; pastry techniques for the restaurant and hotel industries. This includes the production of basic breads, pies, cakes, ice creams, sauces, and chocolate culminating in plated desserts.</td>
</tr>
<tr>
<td>CULAR 235</td>
<td>5.0</td>
<td>Advanced Bakery Operations</td>
<td>4.5</td>
<td>CULAR 20 and TB Clearance and (CULAR 202 or CULAR 213A).</td>
<td>letter</td>
<td>This capstone course focuses on bakery and pastry production for a professional bakery/café outlet. Students learn the theories behind quantity production of baking and pastry products including a variety of breads, baked goods, savories, pastries, pies, cakes, tarts, celebration, and holiday desserts.</td>
</tr>
<tr>
<td>CULAR 241</td>
<td>3.0</td>
<td>Intro to Baking &amp; Pastry Skills/Princ</td>
<td>2.3</td>
<td>CULAR 20 and TB Clearance</td>
<td>letter</td>
<td>This course covers basic baking principles, motor skills, equipment, ingredients, storage, and sanitation in the bakeshop. Students will learn the different mixing, make-up, and baking/cooking techniques that constitute the foundation of baking, including lean and rich yeast dough, cookies, quick breads, sweet dough, laminated dough, batters, and creams.</td>
</tr>
<tr>
<td>CULAR 242</td>
<td>5.0</td>
<td>Interm. Baking and Pastry Skills/Princ</td>
<td>2.3</td>
<td>CULAR 20 and TB Clearance</td>
<td>letter</td>
<td>This course covers basic baking principles, motor skills, equipment, ingredients, storage, and sanitation in the bakeshop. Students will learn the different mixing, make-up, and baking/cooking techniques that constitute the foundation of baking, including lean and rich yeast dough, cookies, quick breads, sweet dough, laminated dough, batters, and creams.</td>
</tr>
<tr>
<td>CULAR 243A</td>
<td>4.0</td>
<td>Advanced Bakery Practicum</td>
<td>4.5</td>
<td>CULAR 20 and TB Clearance</td>
<td>letter</td>
<td>This capstone course focuses on bakery and pastry production for a professional bakery/café outlet. Students learn the theories behind quantity production of baking and pastry products including a variety of breads, baked goods, savories, pastries, pies, cakes, tarts, celebration, and holiday desserts.</td>
</tr>
<tr>
<td>CULAR 243B</td>
<td>4.0</td>
<td>Advanced Bakery Practicum</td>
<td>13.5</td>
<td>CULAR 20 and TB Clearance</td>
<td>letter</td>
<td>This capstone course focuses on bakery and pastry production for a professional bakery/café outlet. It immerses the student in hands-on practice of quantity production of baking and pastry products including a variety of breads, baked goods, savories, pastries, pies, cakes, tarts, celebration, and holiday desserts.</td>
</tr>
</tbody>
</table>
| CULAR 246   | 3.0   | Specialty Cakes & French Pastries                                            | 2.3   | CULAR 20 and TB Clearance                                                    | letter  | This course expands on basic pastry skills to produce a variety of intricate cakes, French pastries, and desserts. An array of advanced techniques will be used for baking different sponges, génoise, joconde, and
meringue-based preparations, as well as advanced creams and fillings, different assembly and decorating techniques.

**CULAR 247** 3.0 units
**Cake Decorating**
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204) and (CULAR 242 or CULAR 205).
Grading: letter grade
This course covers advanced skills for cake making and decorating, including preparation of sponges, fondants, icings, fillings, designs and arrangements, writing and lettering, coloring, cake borders, modeling chocolate, and gum paste flowers.

**CULAR 250** 1.5 units
**Culinary Skills for Baking Students**
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204).
Grading: letter grade
This course introduces the Baking and Pastry student to basic culinary skills and principles in order to build foundational skills, outside of his or her specialty. This includes knife cuts, basic sauce making, sautéing, poaching, braising and steaming.

**CULAR 252** 1.5 units
**Frozen Desserts**
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and CULAR 241 or CULAR 204.
Grading: letter grade
This course introduces the student to the concepts of frozen desserts. It covers the principles and techniques involved in making and processing ice cream, gelato, sorbet, granitas, frozen soufflés, parfaits, and bombs.

**CULAR 253** 1.5 units
**Chocolate Confections, Deco & Showpieces**
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204).
Grading: letter grade
This course explores the hands-on techniques of working with chocolate. It covers chocolate tempering, the creation of a variety of candy confections including hand-shaped, piped and cut ganaches, nut-centered, and crystalline sugar. It also covers chocolate decoration, coloration, painting, molding, modeling, piping, and the assembly of edible chocolate showpieces.

**CULAR 254** 1.5 units
**Sugar Confections, Deco & Showpieces**
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204).
Grading: letter grade
This hands-on course provides a study of sugar-based confections, candies, decorations, and edible showpieces. It covers the creation of a variety of candy confections including caramel candies, Pâte de fruit, and toffee. It also covers pastillage, cast, blown, and pulled sugar, and the assembly of edible sugar showpieces.

**CULAR 255** 1.5 units
**Plated Desserts**
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204) and (CULAR 242 or CULAR 205).
Grading: letter grade
This course provides a study of the components that are involved in the creation of plated desserts: sauces, edible decorative elements, balance of colors and appropriate combination of flavors, size, temperature, theme, and consistency.

**CULAR 256** 1.5 units
**Holiday Desserts**
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204).
Grading: letter grade
This course explores the baking traditions that are closely associated with the Fall/Winter holidays. It covers traditional and modern variations of recipes and techniques from different countries in the old and the new world, such as Stollen, King’s Cake, Yule Log, Panettone, and Fruit Cake.

**CULAR 258** 1.5 units
**Artisan Breads**
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204).
Grading: letter grade
This course provides an in-depth study of the principles and techniques for the preparation and baking of Artisan breads. All breads are mixed and shaped employing traditional techniques, and using pre-fermented dough, sponges, and sourdough starters.

**CULAR 259** 1.5 units
**Viennese Pastries**
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: CULAR 20 and TB Clearance and (CULAR 241 or CULAR 204).
Grading: letter grade
This course explores the baking traditions that are closely associated with the Fall/Winter holidays. It covers traditional and modern variations of recipes and techniques from different countries in the old and the new world, such as Stollen, King’s Cake, Yule Log, Panettone, and Fruit Cake.

**CULAR 271AD** 2.0 units
**Work Experience: Food Services**
1.1 hours lecture, 4.6 hours laboratory
Corequisite: Concurrent enrollment in at least one additional CULAR course.
Grading: letter grade
This course is required for students who plan to earn a career certificate in Culinary Arts or Baking & Pastry Arts. It consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job in the food services industry. It also involves vocational learning experiences through employment/Vocational Cooperative Work Experience directly related to occupational goal or career of interest to the student in the food services industry.
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 1</td>
<td>3.0</td>
<td>Dance Forms Through the Ages</td>
</tr>
<tr>
<td>DANCE 2</td>
<td>2.0</td>
<td>Introduction to Dance</td>
</tr>
<tr>
<td>DANCE 3</td>
<td>2.0</td>
<td>Musical Theatre Dance</td>
</tr>
<tr>
<td>DANCE 5</td>
<td>2.0</td>
<td>Tap Dance 1</td>
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<tr>
<td>DANCE 6</td>
<td>2.0</td>
<td>Tap Dance 2</td>
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<tr>
<td>DANCE 8</td>
<td>2.0</td>
<td>Stretch and Relaxation</td>
</tr>
<tr>
<td>DANCE 12A</td>
<td>2.0</td>
<td>Pilates 1</td>
</tr>
<tr>
<td>DANCE 12B</td>
<td>2.0</td>
<td>Pilates 2</td>
</tr>
<tr>
<td>DANCE 13</td>
<td>2.0</td>
<td>Turns</td>
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<tr>
<td>DANCE 14</td>
<td>2.0</td>
<td>Modern Dance 1</td>
</tr>
<tr>
<td>DANCE 15</td>
<td>2.0</td>
<td>Modern Dance 2</td>
</tr>
</tbody>
</table>

**DANCE (DANCE)**

**DANCE 1 3.0 units**
Dance Forms Through the Ages
3.4 hours lecture
Grading: letter grade or pass/no pass
This course explores the world of dance including its role in culture, its development through history and the theatrical dance forms in contemporary America. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 2 2.0 units**
Introduction to Dance
1.7 hours lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass
This course introduces the basic dance techniques of ballet, modern, and jazz dance. It is recommended for students with no dance experience. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 3 2.0 units**
Musical Theatre Dance
1.7 hours lecture, 1.7 hours laboratory
Corequisite: One of the following—DANCE 2 or 3 or 5 or 6 or 8 or 11 or 12A or 13 or 14 or 15 or 16 or 17 or 18A or 18B or 20 or 21 or 24 or 26 or 27 or 28 or 29 or 46
Recommended Preparation: DANCE 12A or DANCE 12B
Grading: letter grade or pass/no pass
Formerly DANCE 3AD. This course introduces musical theatre dance styles from the 1940s to the present. It includes the study of ballet, jazz and tap techniques to prepare students for performance in musical theatre emphasizing creating character through movement. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 5 2.0 units**
Tap Dance 1
1.7 hours lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass
Formerly DANCE 5AB. Students will study basic tap dance techniques. This course provides the opportunity to develop coordination, rhythm and performance skills. Some history of tap will be included. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 6 2.0 units**
Tap Dance 2
1.7 hours lecture, 1.7 hours laboratory
Recommended Preparation: DANCE 5
Grading: letter grade or pass/no pass
Formerly DANCE 6AB. This is a continuing study of tap dance skills, emphasizing the intermediate level of dance. The course includes the study of terminology, tap history and tap styles. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 8 2.0 units**
Stretch and Relaxation
1.7 hours lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass
Formerly DANCE 8AD. This course includes the study and practice of stretching and breathing principles for increased flexibility, reduction of stress and improved

**DANCE 12A 2.0 units**
Pilates 1
1.7 hours lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass
Formerly DANCE 12AD. This course includes basic elements from Pilates focusing on mat work, ball, magic circle, theraband, foam roller and Reformer exercises. The course will include basic anatomy, Pilates terminology, alignment, breath, strength and flexibility exercises. This course is designed to enhance dance technique and performance and prevent injuries. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 12B 2.0 units**
Pilates 2
1.7 hours lecture, 1.7 hours laboratory
Recommended Preparation: DANCE 12A
Grading: letter grade or pass/no pass
This course will include Intermediate to Advanced elements from Pilates with a Dance Specialization focusing on challenging mat work, ball, magic circle, theraband, foam roller and Reformer exercises. The course will include basic anatomy, Pilates terminology, spinal alignment, breathing patterns, strength and flexibility exercises. Emphasis will be put on spinal and pelvic alignment, breathing to relieve stress and allow adequate oxygen flow to the muscles, while developing a strong core and improving coordination and balance. Transfer Status: Transferable to CSU Only; see counselor for limitations.

**DANCE 13 2.0 units**
Turns
1.7 hours lecture, 1.7 hours laboratory
Prerequisite: DANCE 26 or DANCE 20 or DANCE 14
Grading: letter grade or pass/no pass
Formerly DANCE 13AD. This course includes the practice and study of beginning to advanced turns for modern, ballet and jazz dance. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 14 2.0 units**
Modern Dance 1
1.7 hours lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass
Formerly DANCE 14AB. This course emphasizes dance technique, musicality, improvisation and composition within the modern dance idiom. Full body warm-ups, technical exercises, and dance combinations will be explored as way to build skill, kinesthetic awareness, physical strength, and artistry. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 15 2.0 units**
Modern Dance 2
1.7 hours lecture, 1.7 hours laboratory
Recommended Preparation: DANCE 14
Grading: letter grade or pass/no pass
Formerly DANCE 15AB. This course continues to focus on building technical skill in modern dance including more challenging combinations and patterns, syncopation, and variation in tempo. Musicality,
improvisation, and composition skills will be further developed with more challenging exercises and assignments.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 16**

Modern Dance 3
1.7 hours lecture, 1.7 hours laboratory
Recommended Preparation: DANCE 15
Grading: letter grade or pass/no pass
Formerly DANCE 16AB. This course focuses on building intermediate technical skills in modern dance including more challenging combinations and patterns, increased syncopation, and variation in tempo emphasizing medium to fast weight changes. Musicality, improvisation, and composition skills will be further developed with more challenging exercises and assignments.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 17**

Modern Dance 4
1.7 hours lecture, 1.7 hours laboratory
Recommended Preparation: DANCE 16
Grading: letter grade or pass/no pass
Formerly DANCE 17AB. This course is an advanced study of modern dance techniques for the concert stage, encompassing more complicated combinations taught at a quicker pace, with an emphasis on movement expression, creating composition studies, and a comparison on modern styles and choreographers.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 18A**

Folk and Ethnic Dance-African
1.7 hours lecture, 1.7 hours laboratory
Recommended Preparation: DANCE 26
Grading: letter grade or pass/no pass
Formerly DANCE 18AD. This course introduces dance from African cultures and examines its role in society through the practice of dance traditions and rituals. Basic dance steps and styles are taught, emphasizing coordination, rhythm and body awareness.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 18B**

Folk and Ethnic Dance-Belly Dance
1.7 hours lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass
This course will focus on training students to understand and perform belly dance. Students will also learn about the different music, history, and culture of this dance style. Students will demonstrate mastery of belly dance through choreographed and non-choreographed class performances.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 19**

Hip Hop Dance History
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is a comprehensive survey of Hip-hop dance history. The content of this course will cover the contributions and perspectives of men, women and members of various ethnic or cultural groups in street dance styles known as Hip-Hop from the 20th and 21st centuries.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 20**

Jazz Dance 1
1.7 hours lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass
Formerly DANCE 20AB. This course serves as an introduction to the movement skills used in jazz dance. It includes the use of dynamics in rhythm, sustained and percussive tension, and dramatic focus unique to jazz.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 21**

Jazz Dance 2
1.7 hours lecture, 1.7 hours laboratory
Recommended Preparation: DANCE 20
Grading: letter grade or pass/no pass
Formerly DANCE 21AB. This course is a study of the movement skills that require an intermediate knowledge of jazz dance techniques. Emphasis is on executing movement with a sense of performance and using long movement patterns with a focus on dynamics in rhythm, sustained and percussive tension, and dramatic focus that are unique to jazz.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 24**

Hip Hop
1.7 hours lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass
This course will introduce students to the fundamentals of the hip hop/funk dance style. The students will learn the fundamentals of today’s dances that are commonly used in music videos. Classes will include warm-up exercises, isolations, floor stretches and strengthening specific to the hip hop/funk style of dance. This will also include locomotor movements practiced across the floor and short dance combinations.

Transfer Status: Transferable to CU only; see counselor for limitations.

**DANCE 26**

Ballet 1
1.7 hours lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass
Formerly DANCE 10AB. This course includes the study and execution of fundamental ballet techniques, including appreciation of ballet as an art form through the study of its history, current trends and terminology.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**DANCE 27**

Ballet 2
1.7 hours lecture, 1.7 hours laboratory
Recommended Preparation: DANCE 26
Grading: letter grade or pass/no pass
This course includes the study and execution of beginning ballet techniques, including appreciation of ballet as an art form through the study of its history, current trends and terminology. This course focuses on more challenging combinations and patterns, syncopation, and variation in tempo.

Transfer Status: Transferable to CU only; see counselor for limitations.
<table>
<thead>
<tr>
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<th>Units</th>
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<tbody>
<tr>
<td>DANCE 28</td>
<td>2.0</td>
<td>Ballet 3</td>
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<tr>
<td></td>
<td></td>
<td>1.7 hours lecture, 1.7 hours laboratory</td>
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<tr>
<td></td>
<td></td>
<td>Recommended Preparation: DANCE 27</td>
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<td></td>
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<td>Grading: letter grade or pass/no pass</td>
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<td></td>
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<td>This course includes the study and execution of intermediate ballet techniques, including appreciation of ballet as an art form through the study of its history, current trends and terminology. This course focuses on more challenging combinations and patterns with an emphasis on musicality, placement, stability, and speed. Student will gain strength, improved coordination and alignment and demonstrate technical accuracy.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>DANCE 29</td>
<td>2.0</td>
<td>Ballet 4</td>
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<td></td>
<td>1.7 hours lecture, 1.7 hours laboratory</td>
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<td></td>
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<td>Recommended Preparation: DANCE 28</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>Formerly DANCE 11AB. This course includes the study and execution of advanced ballet techniques, including appreciation of ballet as an art form through the study of its history, current trends and terminology. This course focuses on more challenging combinations and patterns with an emphasis on musicality, placement, stability, and speed including an introduction to contemporary ballet vocabulary. Student will gain strength, improved coordination and alignment, and demonstrate technical accuracy.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>DANCE 31</td>
<td>2.0</td>
<td>Choreography 1</td>
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<td></td>
<td></td>
<td>1.7 hours lecture, 1.7 hours laboratory</td>
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<td>Prerequisite: One semester of DANCE 20, DANCE 10, DANCE 14 or Audition.</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>Formerly DANCE 31AB. This course is a study of creating movement for the dancer focusing on discovering inventive movement, creating a personal style of expression, and development of aesthetic judgment.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>DANCE 32</td>
<td>2.0</td>
<td>Choreography 2</td>
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<td></td>
<td></td>
<td>1.7 hours lecture, 1.7 hours laboratory</td>
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<tr>
<td></td>
<td></td>
<td>Recommended Preparation: One semester of DANCE 31</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td></td>
<td></td>
<td>Formerly DANCE 32AB. This course is a study of choreography for a group of dancers focusing on the use of design in space to create dances of significant form. It includes work in a collaborative environment teaching choreography to workshop participants.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>DANCE 33</td>
<td>2.0</td>
<td>Dance Choreography Workshop</td>
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<td></td>
<td>1.7 hours lecture, 1.7 hours laboratory</td>
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<td>Prerequisite: DANCE 10, DANCE 20 or DANCE 14 or Audition.</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>Formerly DANCE 33AD. This course is a collaborative workshop environment in which class participants work with student choreographers in the creation of dances of significant form and content.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>DANCE 41/1</td>
<td>0.5</td>
<td>Dance Performance</td>
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<td>2.3 hours laboratory</td>
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<td>Corequisite: DANCE 2, 3, 5, 6, 8, 12A, 12B, 13, 14, 15, 16, 17, 18A, 18B, 20, 21, 24, 26, 27, 28, 29, 31, 32, 33, 46.</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>This course prepares students for the professional stage by developing the skills of professional dancers and nurturing choreographers’ artistic development. It emphasizes the application of choreographic concepts and skills through rehearsal and performance of dance projects for public performance. The appropriate class section in this sequence is assigned following skills assessment at the initial class meeting.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>DANCE 41/2</td>
<td>1.0</td>
<td>Dance Performance</td>
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<td></td>
<td></td>
<td>4.5 hours laboratory</td>
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<td></td>
<td>Corequisite: DANCE 2, 3, 5, 6, 8, 12A, 12B, 13, 14, 15, 16, 17, 18A, 18B, 20, 21, 24, 26, 27, 28, 29, 31, 32, 33, 46.</td>
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<td>Grading: letter grade or pass/no pass</td>
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<tr>
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<tr>
<td></td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>DANCE 41/3</td>
<td>2.0</td>
<td>Dance Performance</td>
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<td></td>
<td></td>
<td>6.8 hours laboratory</td>
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<tr>
<td></td>
<td></td>
<td>Corequisite: DANCE 2, 3, 5, 6, 8, 12A, 12B, 13, 14, 15, 16, 17, 18A, 18B, 20, 21, 24, 26, 27, 28, 29, 31, 32, 33, 46.</td>
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<td></td>
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<td>Grading: letter grade or pass/no pass</td>
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</tr>
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<td></td>
<td></td>
<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
</tbody>
</table>
### DANCE 41AD  2.5 units
Dance Performance  
9.0 hours laboratory  
Corequisite: DANCE 2, 3, 5, 6, 8, 12A, 12B, 13, 14, 15, 16, 17, 18A, 18B, 20, 21, 24, 26, 27, 28, 29, 31, 32, 33, 46.  
Grading: letter grade or pass/no pass  
This course prepares students for the professional stage by developing the skills of professional dancers and nurturing choreographers’ artistic development. It emphasizes the application of choreographic concepts and skills through rehearsal and performance of dance projects for public performance. The appropriate class section in this sequence is assigned following skills assessment at the initial class meeting.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

### DANCE 45  2.5 units
Musical Theatre Dance Performance  
9.0 hours laboratory  
Corequisite: One of the Following: DANCE 2 or 3 or 5 or 6 or 8 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18A or 18B or 20 or 21 or 24 or 26 or 28 or 29 or 46  
Recommended Preparation: DANCE 11 or DANCE 12  
Grading: letter grade or pass/no pass  
This course prepares students for the performance of a musical emphasizing developing character through dance culminating in a public presentation.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

### DANCE 46  2.0 units
Ballroom/Social Dance  
1.7 hours lecture, 1.7 hours laboratory  
Grading: letter grade or pass/no pass  
This course introduces students to the fundamentals of partner dance skills in Swing, Salsa, Waltz, Foxtrot, and Tango and other social dances. Students will practice movement techniques, patterns, and styling applicable to each style of dance.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

### DANCE 60  2.0 units
Special Projects in Dance  
1.7 hours lecture, 1.7 hours laboratory  
Grading: letter grade or pass/no pass  
Formerly DANCE 60AD. This course permits lower division students with a generalized background in dance to explore in-depth a specific aspect of dance in both theory and execution.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

### DANCE 98AD  1.5 units
EXP Dance Ensemble Production  
1.1 hours lecture, 2.3 hours laboratory  
Corequisite: DANCE 3AD or DANCE 5AB or DANCE 6AB or DANCE 10AB or DANCE 11AB or DANCE 13AD or DANCE 14AB or DANCE 17AB or DANCE 18AB or DANCE 20AB or DANCE 21AB or DANCE 60AD.  
Grading: letter grade  
This course will focus on the creative and production aspects of running a performance ensemble for the purpose of community outreach and performance. Students will be given a multitude of performance opportunities and logistical dance company building experiences in the development of knowledge and skills in the management of a dance company.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

### DIAGNOSTIC MEDICAL IMAGING (DMI)

#### DMI 10  3.0 units
Introduction of Radiologic Technology  
3.4 hours lecture  
Prerequisite: AH 60 and AH 61 and ANAT 41  
Grading: letter grade  
This course is a study of the history and basic principles of medical radiography, the mechanics of radiographic exposure, the processing of the latent image, basic electrical and radiation safety measures, and medicolegal issues that relate to the practice of radiologic technology.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

#### DMI 11  1.0 unit
Radiographic Techniques  
1.1 hours lecture  
Prerequisite: DMI 20  
Grading: letter grade  
This course is a study of the criteria required to select x-ray machine settings to produce diagnostic quality radiographs and the compensations in radiographic technique that are required for pathologic conditions.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

#### DMI 12  3.0 units
Contrast Fluoroscope/Radiographic Procedures  
3.4 hours lecture  
Corequisite: DMI 11  
Grading: letter grade  
This course is a study of basic Fluoroscopy: Radiographic Contrast Media administration, pharmacology, safety, and treatments. Contrast Media examinations, Special Procedures, Digital Angiography, Vascular and Non-Vascular intervention are also discussed within the scope of this course.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

#### DMI 14  3.0 units
Trends and Self-Assessment in Rad Tech  
3.4 hours lecture  
Prerequisite: DMI 15 or current C.R.T. (Certified Radiologic Technologist).  
Grading: letter grade  
The purpose of this course is to prepare the students for the state and national licensure/certification in this discipline. Students will analyze their strengths and weaknesses, and formulate strategies to ensure successfully passing the State and National board examinations.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMI 15</td>
<td>3.0</td>
<td>Computer Applications in Radiology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.4 hours lecture</td>
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<tr>
<td></td>
<td></td>
<td>Prerequisite: DMI 24</td>
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<td>Grading: letter grade</td>
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<td>This course is a study of the history of computer systems, hardware and software, and their uses in radiology. Specific areas covered are: CT, Digital Imaging, MRI, and Picture Archiving Systems. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>DMI 20</td>
<td>3.0</td>
<td>Introduction to Radiologic Physics</td>
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<tr>
<td></td>
<td></td>
<td>3.4 hours lecture</td>
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<td></td>
<td></td>
<td>Prerequisite: DMI 10</td>
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<td>Grading: letter grade</td>
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<td>This course provides a study of the basic principles of physics involved in the production, behavior, modification, and control of radiation. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>DMI 21</td>
<td>2.0</td>
<td>Applied Radiological Physics</td>
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<tr>
<td></td>
<td></td>
<td>1.1 hours lecture, 3.4 hours laboratory</td>
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<td></td>
<td></td>
<td>Prerequisite: DMI 20</td>
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<td>Grading: letter grade</td>
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<td></td>
<td></td>
<td>This course is a study of the application of the interaction of radiation and matter, technique manipulation, quality assurance, and quality control. Students are introduced to advanced Medical Imaging including: digital imaging; ultrasound; nuclear medicine; radiation oncology; PET; SPECT; and bone densitometry. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>DMI 24</td>
<td>3.0</td>
<td>Radiation: Biology and Protection</td>
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<tr>
<td></td>
<td></td>
<td>3.4 hours lecture</td>
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<td></td>
<td>Prerequisite: DMI 21</td>
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<td>Grading: letter grade</td>
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<td>This course presents a history of ionizing radiation exposure to humans. Cellular and biologic effects of ionizing radiation are explored, with specific emphasis as to ways of limiting exposure to patients and personnel. State and Federal regulations are discussed as they pertain to Diagnostic Medical Imaging. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>DMI 30</td>
<td>3.0</td>
<td>Positioning for General Diagnostic Rad</td>
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<td></td>
<td></td>
<td>2.3 hours lecture, 3.4 hours laboratory</td>
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<td></td>
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<td>Prerequisite: DMI 20</td>
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<td>Recommended Preparation: DMI 11</td>
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<td>Grading: letter grade</td>
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<td>This course is the study of positioning for general and specialized radiologic exams of the skeletal system and adjacent organ systems. The student will develop skill in positioning the patient, film, and x-ray tube, and select appropriate techniques to produce diagnostic quality radiographic images. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>DMI 31</td>
<td>3.0</td>
<td>Positioning for Cranial Radiography</td>
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<td></td>
<td>2.3 hours lecture, 3.4 hours laboratory</td>
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<td></td>
<td></td>
<td>Prerequisite: DMI 30</td>
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<td>Grading: letter grade</td>
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<tr>
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<td></td>
<td>This course is the study of positioning for general and specialized radiologic exams of the cranium and its contents. The student will develop skill in positioning the patient, film and x-ray tube, and select appropriate techniques to produce diagnostic quality radiographic images. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>DMI 40A</td>
<td>2.5</td>
<td>Clinical Radiology</td>
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<td></td>
<td></td>
<td>9.0 hours laboratory</td>
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<td>Prerequisite: DMI 10 and DMI 20 and health evaluation.</td>
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<td>Grading: letter grade</td>
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<td>This course is the clinical application of theoretical knowledge to the practice of radiologic technology, correlation of clinical experiences, training and career goals, interpersonal relations, job oriented problems and image quality control. The course includes an assignment to a radiology department in an accredited hospital for clinical experience. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>DMI 40B</td>
<td>8.5</td>
<td>Clinical Radiology</td>
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<td></td>
<td></td>
<td>1.1 hours lecture, 25.9 hours laboratory</td>
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<td>Prerequisite: DMI 40A</td>
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<td>Grading: letter grade</td>
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<tr>
<td>DMI 40C</td>
<td>6.0</td>
<td>Clinical Radiology</td>
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<td></td>
<td></td>
<td>1.1 hours lecture, 14.6 hours laboratory</td>
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<td>Prerequisite: DMI 40B</td>
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<td>Grading: letter grade</td>
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<td></td>
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<tr>
<td>DMI 40D</td>
<td>11.0</td>
<td>Clinical Radiology</td>
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<td></td>
<td></td>
<td>1.1 hours lecture, 34.9 hours laboratory</td>
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<td></td>
<td></td>
<td>Prerequisite: DMI 40C</td>
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<td>Grading: letter grade</td>
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</table>
|             |       | This course is the clinical application of theoretical knowledge to the practice of radiologic technology, correlation of clinical experiences, training and career goals, interpersonal relations, job oriented problems and image quality control. The course includes an
DMI 40E  11.0 units

Clinical Radiology
1.1 hours lecture, 34.9 hours laboratory
Prerequisite: DMI 40D
Grading: letter grade
This course is the clinical application of theoretical knowledge to the practice of radiologic technology, correlation of clinical experiences, training and career goals, interpersonal relations, job oriented problems and image quality control. The course includes an assignment to a radiology department in an accredited hospital for clinical experience.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

DMI 60  3.0 units

Radiologic Pathology
3.4 hours lecture
Prerequisite: ANAT 41 and DMI 11
Grading: letter grade
This course is an introduction to the study of disease as it relates to radiologic technology. It includes the causes, signs, symptoms and radiographic demonstration of common human diseases. The course acquaints the student with various pathologic conditions and their impact on the radiographic process.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

DMI 61  2.0 units

Fluoroscopy
2.3 hours lecture, 1.1 hours laboratory
Prerequisite: DMI 40D or Equivalent
Corequisite: DMI 14
Grading: letter grade
This course includes the principles of radiation protection, fluoroscopy and viewing equipment, recording systems, quality control, patient positioning and regulatory provisions associated with fluoroscopy. This course prepares students to obtain a Department of Health Services Fluoroscopy permit.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

DMI 222  0.5 unit

Venipuncture for Medical Imaging
0.6 hour lecture, 0.6 hour laboratory
Prerequisite: DMI 12 and AH 61
Grading: letter grade or pass/no pass
This course is designed for instruction and supervised practice of the concepts and techniques of venipuncture. This course will partially fulfill the requirements of the California Health and Safety Code Section 106985 pertaining to Radiologic Technologists.

DMI 401  3.0 units

Physical Principles of MRI
3.4 hours lecture
Prerequisite: Possession of a valid certified Radiologic Technologist (CRT) and/or American Registry of Radiologic Technologist (ARRT) License.
Recommended Preparation: DMI 14 and DMI 40E
Grading: letter grade
This course provides the student with a comprehensive overview of Magnetic Resonance Imaging (MRI). Included are image acquisition; MRI equipment, terminology, and instrumentation; tissue characteristics; basic patient and personnel safety; patient assessment and preparation; imaging parameters, and quality assurance. The course is designed to allow practicing technologists the opportunity to acquire the necessary skills and knowledge to qualify for national licensure as MRI technologists.

DMI 402  3.0 units

Magnetic Resonance Imaging Procedure
3.4 hours lecture
Prerequisite: Possession of a valid certified Radiologic Technologist (CRT) and/or American Registry of Radiologic Technologist (ARRT) License.
Grading: letter grade
This course includes imaging techniques related to the central nervous system, neck, thorax, musculoskeletal system and abdomen and pelvic regions. Specific clinical application, coils available and their use, consideration in the scan sequences, specific choices of protocols, and positioning criteria will be included. Planes that best demonstrate anatomy and the signal characteristics of normal and abnormal structures are discussed.

DMI 403  3.0 units

Cross-Sectional Anatomy
3.4 hours lecture
Prerequisite: Possession of a valid certified Radiologic Technologist (CRT) and/or American Registry of Radiologic Technologist (ARRT) License.
Recommended Preparation: ANAT 41
Grading: letter grade
This is a study of human anatomy as seen in axial, sagittal, and coronal planes as would be shown on CT or MRI examinations. Bony, muscular, vascular, soft tissues, and organs of the following anatomical regions are studied: central nervous system, head, neck, musculoskeletal, cardiovascular, thorax, abdomen, and pelvis.

DMI 404  3.0 units

MRI/CT Pathology
3.4 hours lecture
Prerequisite: DMI 60 or DMI 403
Grading: letter grade
This course familiarizes the student with the common pathologies demonstrated on MRI/CT examinations and their appearance with various imaging protocols. The course content will include all commonly imaged body systems and structures.
Courses of Instruction

DMI 405A 2.5 units
MRI Clinical Practicum
9.0 hours laboratory
Prerequisite: Possession of a valid certified Radiologic Technologist (CRT) and/or American Registry of Radiologic Technologist (ARRT) License.
Grading: letter grade
Formerly DMI 405AB. This course allows the students the opportunity to practice the skills necessary to obtain high quality MR images, to objectively alter protocols based on patient pathology or physical condition, and to identify image quality problems and make appropriate corrections.

DMI 405B 2.5 units
MRI Clinical Practicum
9.0 hours laboratory
Prerequisite: DMI 405A
Grading: letter grade
This course allows the students the opportunity to continue to practice the skills necessary to obtain high quality MR images, to objectively alter protocols based on patient pathology or physical condition, and to accumulate the required examinations designated by the American Registry of Radiologic Technologists.

DMI 406 3.0 units
Computerized Tomography Physics
3.4 hours lecture
Prerequisite: Possession of a valid certified Radiologic Technologist (CRT) and/or American Registry of Radiologic Technologist (ARRT) License.
Recommended Preparation: DMI 14 and DMI 40E
Grading: letter grade
This course provides the student with a comprehensive understanding of the physical principles and instrumentation involved in computed tomography (CT). Included are: physics topics, CT systems and operation, data acquisition and display, and radiation protection practices. The course is designed to allow practicing technologists the opportunity to acquire the necessary skills and knowledge to qualify for national licensure as CT technologists.

DMI 407 3.0 units
Computerized Tomography Procedures
3.4 hours lecture
Prerequisite: Possession of a valid certified Radiologic Technologist (CRT) and/or American Registry of Radiologic Technologist (ARRT) License.
Grading: letter grade
This course provides the student with detailed instruction on imaging techniques for computer tomography (CT). Procedures included are central nervous and musculoskeletal systems, neck, thorax, abdomen and pelvis. Specific clinical application, indications for the procedure, patient education, assessment and preparation, positioning, contrast media usage, and image processing will be included. CT images will be reviewed for quality, anatomy and pathology.

DMI 462 3.5 units
Mammography
3.4 hours lecture, 1.7 hours laboratory
Prerequisite: DMI 40D or equivalent
Grading: letter grade
This course prepares students to obtain the Department of Health Services Mammography license. It includes: principles of components of dedicated mammography equipment, radiation protection legislation, quality assurance regulations and mammographic positioning. Transfer Status: Transferable to CSU Only; see counselor for limitations.

DIESEL MECHANICS (DIESL)

DIESL 281 10.0 units
Detroit Diesel Engines
5.6 hours lecture, 16.9 hours laboratory, 0.6 hour supplemental learning
Grading: letter grade or pass/no pass
This course is an introduction to Detroit Diesel Engines. It covers the safety procedures, disassembly, problem evaluation, repair procedures, reassembly, engine testing, troubleshooting and tuning of the Detroit diesel engine. Students will be required to attend 10 hours in the CTE Success Center for specially designed activities and assignments that relate to this course content.

DIESL 282 10.0 units
Cummins Four Cycle Engine
5.6 hours lecture, 16.9 hours laboratory, 0.6 hour supplemental learning
Grading: letter grade or pass/no pass
This course is an introduction to Cummins Four-Cycle Engines. It covers safety procedures, disassembly, problem evaluation, repair procedures, reassembly, engine testing, troubleshooting and tuning of the engine. Students will be required to attend 10 hours in the CTE Success Center for specially designed activities and assignments that relate to this course’s content.

DIESL 283 10.0 units
Powered Systems
5.6 hours lecture, 16.9 hours laboratory
Prerequisite: DIESL 281 or 282
Grading: letter grade or pass/no pass
This course is an introduction to diesel powered systems required to support engines in a variety of applications. It covers the safety procedures, disassembly, component testing, troubleshooting and reassemble to factory standards.

DIESL 284 10.0 units
Highway Transport
5.6 hours lecture, 16.9 hours laboratory
Recommended Preparation: DIESL 282
Grading: letter grade or pass/no pass
This course covers safety, troubleshooting, and repair of all components that are used on heavy diesel trucks. Maintenance of the total truck and service operations will be highlighted.

DIESL 289 10.0 units
Caterpillar 3406 and 3116 Engine
5.6 hours lecture, 16.9 hours laboratory, 0.6 hour supplemental learning
Grading: letter grade or pass/no pass
This course is an introduction to Caterpillar Four-Cycle Engines. It covers safety procedures, disassembly, problem evaluation, repair procedures, reassembly, engine testing, troubleshooting and tuning of the engine. Students will be required to attend 10 hours in the CTE Success Center for specially designed activities and assignments that relate to this course’s content.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIESL 290</td>
<td>C.A.T. Transmissions and Final Drive</td>
<td>10.0</td>
<td>This course covers steering, clutches, brakes, transmissions and final drive units for Caterpillar heavy equipment intended for off-highway use.</td>
</tr>
<tr>
<td>DIESL 291</td>
<td>C.A.T. Hydraulics</td>
<td>10.0</td>
<td>This course is an introduction to Caterpillar hydraulics systems. It covers safety procedures, troubleshooting of hydraulic systems, problem evaluation and repair procedures on hydraulic pumps, valves and hydraulic equipment. Students will be required to attend 10 hours in the CTE Success Center for specially designed activities and assignments that relate to this course’s content.</td>
</tr>
<tr>
<td>DIESL 292</td>
<td>C.A.T. Chassis &amp; Electrical</td>
<td>10.0</td>
<td>This course is an introduction to Caterpillar off-highway and on-highway chassis and related components to support vehicles in a variety of powered system applications. It will include testing, analysis and repair of engines, vehicles and their components.</td>
</tr>
<tr>
<td>DIESL 293</td>
<td>General Engines</td>
<td>4.0</td>
<td>This course is an introduction to the operation and maintenance of various types of diesel and spark ignited engines. It will include fuel injection and fuel pump systems, governors, marine, special tools and testing equipment, and safety practices.</td>
</tr>
<tr>
<td>DIESL 391A</td>
<td>Hydraulics</td>
<td>3.0</td>
<td>This course is an introduction to heavy equipment hydraulic systems required to support a variety of heavy diesel applications. Topics will include shop safety practices, industry terminology and testing, troubleshooting, analysis and repair of hydraulic components.</td>
</tr>
<tr>
<td>DIESL 391B</td>
<td>Heavy Equipment Electrical Systems</td>
<td>5.0</td>
<td>This course is an introduction to Heavy equipment electrical systems required to support a variety of heavy diesel applications. Course topics will include the testing, troubleshooting, analysis and repair of electrical components required to support an array of diesel powered systems.</td>
</tr>
<tr>
<td>DIESL 492</td>
<td>Air and Hydraulic Brakes</td>
<td>3.0</td>
<td>This course is an introduction to the theory and fundamentals of air and hydraulic brake systems.</td>
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</tbody>
</table>

**DIGITAL MEDIA ARTS (DMA)**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMA 201</td>
<td>Intro to Digital Media Arts</td>
<td>3.0</td>
<td>This course is a survey course introducing students to the fundamental applications of digital media systems and technologies as creative tools. The course also explores how digital media impacts our cultural, business and personal lives and transforms our experience of communication. Topics will include: imaging, graphic design, animation, visual effects and motion graphics, web design, transmedia storytelling, interactive media, gaming, sound design and recording, video production and post production.</td>
</tr>
</tbody>
</table>

**DRAFTING AND MECHANICAL DESIGN (DRAFT)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRAFT 51A</td>
<td>Industrial Drafting I</td>
<td>3.0</td>
<td>This course will cover geometric tolerance dimensioning, orthographic projection, pictorial views, auxiliary views, sections, and intersections. Attention to machine and material shop processes will be practiced on all drawings. Basic freehand lettering, sketching and drawing instruments will be reviewed. Emphasis will be given to producing individualized and teamwork detail and assembly drawings.</td>
</tr>
<tr>
<td>DRAFT 51B</td>
<td>Industrial Drafting II</td>
<td>3.0</td>
<td>This course will cover dimension information on drawings using ANSI 14.5 geometric tolerance standards. Discussion and application of tolerance standards will be followed on all finished projects. Engineering designs will include welding drawings, screw threads, fasteners, keys, key ways, springs, gears, splines, cams and bearings. Advanced orthographic detail and assembly drawings will be developed and produced by the individual student or in student teams. Some projects will include development of 3D models.</td>
</tr>
</tbody>
</table>
| DRAFT 52A  | Advanced Industrial Drafting                     | 3.0   | This course includes discussion, development, and implementation of the following types of drawings: welding, piping, electrical, structural, tools and dies, jig and fixture design. Applied math will be used in creating charts, graphs, and diagrams that require information for
Courses of Instruction

Materials and heat treatment. Product design fundamentals will be identified, analyzed, refined, and implemented on all drawings. **Transfer Status: Transferable to CSU Only; see counselor for limitations.**

**DRAFT 52B** 3.0 units

**Descriptive Geometry**

2.3 hours lecture, 4.5 hours laboratory

Prerequisite: DRAFT 52A

Grading: letter grade

This course will include information on the fundamentals of descriptive geometry used on points, edges, and surfaces. Drawings will use straight line and plane relationships in creating flat surfaces and curved lines and planes to generate surfaced intersections and developments. Vector geometry and graphic solutions are addressed. **Transfer Status: Transferable to CSU Only; see counselor for limitations.**

**DRAFT 60** 3.0 units

**Geometric Dimensioning and Tolerancing**

3.4 hours lecture

Recommended Preparation: DRAFT 201 or DRAFT 51A

Grading: letter grade

Geometric Dimensioning and Tolerancing (GD&T) is a course designed for Manufacturing Technology students, Drafting Technology students, and professional upgrade training. The course covers a review of conventional dimensioning (non-geometric tolerancing), clearance fits, tolerancing fundamentals, maximum material condition (MMC), least material condition (LMC), metric and inch dimensioning. GD&T conventions covered are: dimensioning and geometric tolerancing symbols, datums, material condition symbols, tolerances of form and profile, tolerances of orientation and runout, and location tolerances. **Transfer Status: Transferable to CSU Only; see counselor for limitations.**

**DRAFT 201** 4.0 units

**Introduction to Drafting**

3.4 hours lecture, 3.4 hours laboratory

Recommended Preparation: COMIS 1 or knowledge of computers and MATH 120 or basic geometry

Grading: letter grade or pass/no pass

This is an entry-level course offered as a preparation for architectural design, mechanical drafting and interior design students with no previous graphic training. This course provides instruction in the fundamental principles and techniques of traditional drafting and computer aided drafting (CAD), including drafting equipment (manual and CAD), sketching, lettering, line type and line weight, orthographic projection, isometrics and dimensioning. The CAD training will utilize the latest software technology, such as AutoCAD, in the Windows environment and will introduce the following CAD fundamentals: user interface, basic draw and edit commands, template drawings, dimensioning, electronic drawing sheets, file management, printing and plotting and the Windows operating system for CAD users. Exercises will cover drawings for both mechanical and architectural applications.

**DRAFT 202** 4.0 units

**AutoCAD I, Fundamentals**

3.4 hours lecture, 3.4 hours laboratory

Recommended Preparation: COMIS 1 or knowledge of computers and MATH 120 or basic geometry.

Grading: letter grade or pass/no pass

Formerly DRAFT 202AD. This course is an intermediate-level course aimed at individuals with a drafting background employed in engineering, architecture, interior design and other related fields who wish to upgrade their skills in the area of Computer Aided Drafting (CAD). CAD training will utilize the latest software technology, such as AutoCAD, in the Windows environment. This course continues to introduce CAD fundamentals as well as intermediate drawing techniques: user interface, basic draw and edit commands, template drawings, dimensioning, electronic drawing sheets, file management, printing and plotting and the Windows operating system for CAD users. Exercises cover drawings for both mechanical and architectural applications.

**DRAFT 203** 4.0 units

**AutoCAD II, Advanced Concepts**

3.4 hours lecture, 3.4 hours laboratory

Recommended Preparation: DRAFT 201 or DRAFT 202

Grading: letter grade or pass/no pass

Formerly 203AD. This course is an intermediate level course aimed at individuals with a drafting background employed in engineering, architecture, interior design and other related fields who wish to upgrade their skills in the area of Computer Aided Drafting (CAD). Topics cover advanced 2D concepts and intermediate level 3D modeling using AutoCAD Software: user interface, advanced draw, edit, and query commands, template drawings, dimension styles, model space/paper space electronic drawing sheets, external reference styles, file management and the Web, plotting styles, blocks and attributes and 3D modeling techniques.

**DRAFT 204** 4.0 units

**3D Visualization/Animation**

3.4 hours lecture, 3.4 hours laboratory

Recommended: DRAFT 203AD

Grading: letter grade or pass/no pass

This course is an advanced level course primary aimed at individuals with a drafting background employed in engineering, architecture, interior design and other related fields who wish to upgrade their skills in the area of Computer Aided Drafting (CAD), Visualization, Rendering and Animation. Successful completion of the three modules in DRAFT 204 culminates in a Certificate of Achievement 3D visualization, Rendering and Animation. CAD training will utilize AutoCAD and one or more of the following Architectural Desktop, Sketchup, REVIT Architecture and 3D Studio MAX Software. Digital non-linear editing is introduced. DRAFT 204 is the final class in a series of three leading to a Certificate of Completion CAD Professional Architectural or Mechanical Applications. Advanced 3D modeling and rendering concepts are explored: user interface, coordinate system, surface and solids modeling commands, rendering and animation. Projects cover both mechanical and architectural applications.
Courses of Instruction

DRAFT 210  1.5 units
3D Printing Fundamentals I (FDM)
1.1 hours lecture, 2.3 hours laboratory
Recommended Preparation: DRAFT 201 or DRAFT 51A or any 3D Digital Modeling software experience.
Grading: letter grade or pass/no pass
This course introduces students to the field of 3D Digital Manufacturing and Design by providing training in the setup and operation of a CO2 Laser. Laser processes covered in the class are: cutting, marking, imaging and engraving. Students will receive introductory instruction on various 3D CAD and Parametric Design software packages used to create digital 3D models for printing. This class will enhance the employability skills of students preparing for careers such as Engineering, Engineering Technology, Product Design, Jewelry Design and Model Design for Animation and Architecture.

DRAFT 211  1.5 units
Laser Cutting Fundamentals
1.1 hours lecture, 2.3 hours laboratory
Recommended Preparation: DRAFT 201 or DRAFT 51A or any 3D Digital Modeling software experience.
Grading: letter grade or pass/no pass
This course introduces students to the field of Digital Manufacturing and Design by providing training in the setup and operation of a CO2 Laser. Laser processes covered in the class are: cutting, marking, imaging and engraving. Students will receive introductory instruction on digital drawing software packages used to create digital graphics for printing and imaging with an introduction to appropriate materials. This class will enhance the employability skills of students preparing for careers such as Engineering Technology, Product Design, Jewelry Design and Model Design for Architecture and other industries. The class includes time for student project work.

DRAFT 220  3.0 units
Introduction to CATIA
2.3 hours lecture, 4.5 hours laboratory
Recommended Preparation: DRAFT 201 or DRAFT 51A or Industry Drafting or High School Drafting classes.
Grading: letter grade or pass/no pass
This course is the first in a series of three courses preparing students for careers as computer aided drafting operators in various industries utilizing CATIA parametric design software. The class introduces students to the fundamental operations of CATIA software concentrating on the user interface and the creation of industry standard detail parts drawings and assemblies based on 2D profiles (sketches) in a Windows environment. The course may serve as a preparation for students intending to take the industry certification test for CATIA Surface Design Specialist created by Dessault Systems.

DRAFT 221  3.0 units
Intermediate CATIA
2.3 hours lecture, 4.5 hours laboratory
Recommended Preparation: DRAFT 220 or DRAFT 298D or TEC 60
Grading: letter grade or pass/no pass
This course is the second course in a series of three preparing students for careers as computer aided drafting operators in various industries utilizing CATIA parametric design software. This intermediate level class introduces students to the more complex operations of CATIA software than the former class by concentrating on advanced design solids modeling concepts and applying them in the creation of industry standard detail parts drawings and advanced assembly/subassembly drawings in a Windows environment. The course may serve as a preparation for students intending to take industry certification tests CATIA PART DESIGN Expert and CATIA Assembly Design Expert created by Dessault Systems.

DRAFT 222  3.0 units
Advanced CATIA
2.3 hours lecture, 4.5 hours laboratory
Recommended Preparation: DRAFT 221 or DRAFT 298E or TEC 60
Grading: letter grade or pass/no pass
This course is the third course in a series of three preparing students for careers as computer aided drafting operators in various industries utilizing CATIA parametric design software. The class introduces students to advanced levels of the operations of CATIA software concentrating on sheet metal, surface modeling, drawing tools in a Windows environment. The course may serve as a preparation for students intending to take the industry certification test for a CATIA Surface Design Specialist created by Dessault Systems.

DRAFT 230  3.0 units
Introduction to SolidWorks Level 1
2.3 hours lecture, 4.5 hours laboratory
Recommended Preparation: DRAFT 201 or DRAFT 51A or Industry Drafting experience or High School Drafting classes.
Grading: letter grade or pass/no pass
This course is the first in a series of three preparing students for careers as computer aided drafting (CAD) operators in various industries utilizing SolidWorks parametric design software. The class introduces students to the fundamental operations of SolidWorks software concentrating on the user interface and the creation of industry standard detail parts and assembly drawings based on 2D profiles (sketches) in a Windows environment. The course may serve as a preparation for students intending to take an industry certification test Certified SolidWorks Associate (CSWA) created by Dessault Systems.

DRAFT 231  3.0 units
Intermediate SolidWorks Level 2
2.3 hours lecture, 4.5 hours laboratory
Recommended Preparation: DRAFT 230 or DRAFT 298F or TEC 60
Grading: letter grade or pass/no pass
This course is the second in a series of three preparing students for careers as computer aided drafting operators in various industries utilizing SolidWorks parametric design software. The class introduces students to intermediate levels of the operations of SolidWorks software concentrating on the creation of complex industry standard detail parts drawings and assemblies in a Windows environment. The course will prepare students to take an industry certification test, Certified SolidWorks Professional (CSWP), created by Dessault Systems.
Courses of Instruction

DRAFT 232  3.0 units
Advanced SolidWorks Level 3
2.3 hours lecture, 4.5 hours laboratory
Recommended Preparation: DRAFT 231 or DRAFT 298G or TEC 60
Grading: letter grade or pass/no pass
This course is the third in a series of three preparing students for careers as computer aided drafting operators in various industries utilizing SolidWorks parametric design software. The class introduces students to advanced levels of the operations of SolidWorks software concentrating on sheet metal, weldments, surface modeling, mold tools, drawing tools and FEA (Finite Element Analysis) in a Windows environment. The course will prepare students to take an industry certification test, Certified SolidWorks Expert (CSWE), created by Dessault Systems.

DRAFT 298G  3.0 units
EXP: Intermediate Solidworks Level 2
2.3 hours lecture, 4.5 hours laboratory
Recommended Preparation: DRAFT 298F or TEC 60
Grading: letter grade or pass/no pass
This class is the second in a series of three preparing students for careers as computer aided drafting operators in various industries utilizing SolidWorks parametric design software. The class introduces students to intermediate levels of the operations of SolidWorks software concentrating on the creation of complex industry standard detail parts drawings and assemblies in a Windows environment. The course will prepare students to take an industry certification test, Certified SolidWorks Professional (CSWP), created by Dessault Systems.

DRAFT 298I  3.0 units
EXP: Advanced Solidworks Level 3
2.3 hours lecture, 4.5 hours laboratory
Recommended Preparation: DRAFT 298G or TEC 60
Grading: letter grade or pass/no pass
This class is the third in a series of three preparing students for careers as computer aided drafting operators in various industries utilizing SolidWorks parametric design software. The class introduces students to advanced levels of the operations of SolidWorks software concentrating on sheet metal, weldments, surface modeling, mold tools, drawing tools and FEA (Finite Element Analysis) in a Windows environment. The course will prepare students to take an industry certification test, Certified SolidWorks Expert (CSWE), created by Dessault Systems.

ECONOMICS (ECON)

ECON 1  3.0 units
Macro Economic Analysis
3.4 hours lecture
Prerequisite: MATH 130 or MATH 130A and MATH 130B or one year of high school intermediate algebra with a grade of B or better as reflected by the second semester grade or qualification through the math assessment process.
Grading: letter grade or pass/no pass
Formerly ECON 1A. Macroeconomics is concerned with the economy as a whole and large market segments. The instructional emphasis is on macroeconomic policy. This course examines the functioning of a mixed enterprise system. Topics will include the economic role of government, determination of national income, the banking system, and Federal Reserve policy. The attention is focused on such problems as the level of unemployment, the rate of inflation, the nation’s total output of goods and services, fiscal and monetary policies.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 1H</td>
<td>3.0</td>
<td>Honors Macro Economic Analysis</td>
<td>3.4 hours lecture</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prerequisite: Qualification for Honors Program and MATH 130 or MATH 130A and MATH 130B</td>
<td>Grading: letter grade or pass/no pass</td>
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<td>Formerly ECON 1AH. Macroeconomics is concerned with the economy as a whole and large market segments. The instructional emphasis is on macroeconomic policy. This course examines the functioning of a mixed enterprise system. Topics will include the economic role of government, determination of national income, the banking system, and Federal Reserve policy. The attention is focused on such problems as the level of unemployment, the rate of inflation, the nation's total output of goods and services, fiscal and monetary policies. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>ECON 2</td>
<td>3.0</td>
<td>Micro Economic Analysis</td>
<td>3.4 hours lecture</td>
</tr>
<tr>
<td></td>
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<td>Prerequisite: MATH 130 or MATH 130A and MATH 130B or one year of high school intermediate algebra with a grade of B or better as reflected by the second semester grade or qualification through the math assessment process.</td>
<td>Grading: letter grade or pass/no pass</td>
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<td>Formerly ECON 1B. This course examines the behaviors of individual households and firms in a mixed enterprise capitalist system. The class will include topics of price theory, distribution, resource allocation, foreign trade and comparative economic systems. Microeconomics is concerned with specific economic units or parts that make up an economic system and the relationship between these parts. The emphasis is placed on understanding the behavior of individual firms and households, and the ways in which they interact. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>ECON 2H</td>
<td>3.0</td>
<td>Honors Micro Economics Analysis</td>
<td>3.4 hours lecture</td>
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<tr>
<td></td>
<td></td>
<td>Prerequisite: Qualification for Honors Program and MATH 130 or MATH 130A and MATH 130B</td>
<td>Grading: letter grade</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Formerly ECON 1B. This course examines the behaviors of individual households and firms in a mixed enterprise capitalist system. The class will include topics of price theory, distribution, resource allocation, foreign trade and comparative economic systems. Microeconomics is concerned with specific economic units or parts that make up an economic system and the relationship between these parts. The emphasis is placed on understanding the behavior of individual firms and households, and the ways in which they interact. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
<td></td>
</tr>
<tr>
<td>ECON 3</td>
<td>3.0</td>
<td>General Concepts in Economics</td>
<td>3.4 hours lecture</td>
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<td></td>
<td></td>
<td>Grading: letter grade or pass/no pass</td>
<td>This course is a survey of economic principles, both micro and macro. This course is designed to provide non-economics and non-business majors a foundation in economics. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>ECON 4</td>
<td>3.0</td>
<td>Contemporary Economic Issues</td>
<td>3.4 hours lecture</td>
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<td>Grading: letter grade or pass/no pass</td>
<td>This course offers an economic analysis of contemporary questions including environmental, institutional, and multicultural issues. The class will determine the role of economies, as a social science, assisting in understanding causes, effects, and possible policies for current problems. The instructional emphasis is on the relationship of basic tools of economic analysis and their application to current economic problems. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>ECON 5</td>
<td>3.0</td>
<td>The Global Economy</td>
<td>3.4 hours lecture</td>
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<td>Grading: letter grade or pass/no pass</td>
<td>This course examines the location and organization of international economic activities from an economic, cultural, political, and environmental perspective. Topics covered by a faculty team drawn from economics and geography include the spatial distribution of resources and production, global flows of information, capital and labor, and regional inequalities such as income distribution, poverty, discrimination and standard of living. This class is recommended for students in business, social science and liberal arts with an interest in global and international issues, including regional and social inequalities, marketing and international trade, and tourism. This course is not open to students registered in or with credit in GEOG 5. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>EDUC 20</td>
<td>3.0</td>
<td>Intro to Elementary Classroom Teaching</td>
<td>3.4 hours lecture</td>
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<td>Recommended Preparation: READ 82 or Qualification through the LBCC assessment process for Reading and Eligibility for ENGL 1.</td>
<td>Grading: letter grade</td>
</tr>
</tbody>
</table>
|             |       | This course introduces students to the concepts and issues related to teaching diverse learners in today's contemporary schools, Kindergarten through grade 12 (K-12). Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary education issues, California's common core standards, and teacher performance standards. In addition to class time, the course requires a minimum of 45 hours of structured fieldwork in public school elementary classrooms that represent California's diverse student population, and
includes cooperation with at least one carefully and campus-approved certificated classroom teacher. Transfer Status: Transferable to CSU Only; see counselor for limitations.

**ELECTRICITY (ELECT)**

**ELECT 41** 2.0 units

Technical Applications of Minicomputers
1.1 hours lecture, 3.4 hours laboratory
Grading: letter grade
The course will consist of an introduction to the various software programs used in the electrical program. Students will develop all the components of a complete engineering technical report. The course will utilize computer applications to research and complete technical reports and documentation. Included are AutoCAD, Word, Excel, Visio, Constructor, and web based communication and information research. Transfer Status: Transferable to CSU Only; see counselor for limitations.

**ELECT 200A** 6.5 units

First Semester Industrial Electricity
5.1 hours lecture, 6.8 hours laboratory
Prerequisite: ELECT 202
Grading: letter grade
This course is an introduction to direct current electrical theory. Covered are industry practices, application, study of nomenclature and components. Also covered are formulas used in electrical theory, information regarding proper use and selection of hand tools, and laboratory practices as performed in the electrical maintenance and construction industry.

**ELECT 200B** 8.0 units

Second Semester Industrial Electricity
6.8 hours lecture, 6.8 hours laboratory
Prerequisite: ELECT 200A or ELECT 204
Grading: letter grade
This course covers operational theory and practices associated with motors and generators. Included are theory and lab work associated with motors, generators, motor controls and circuit diagrams, including wiring practices in the electrical maintenance and construction industry.

**ELECT 200C** 8.0 units

Third Semester Industrial Electricity
6.8 hours lecture, 6.8 hours laboratory
Prerequisite: ELECT 225 and ELECT 209 or ELECT 200B
Grading: letter grade
This course is an introduction to Alternating Current theory, practices and applications with studies of nomenclature and components. It is a course that requires previous Direct Current electrical coursework and math.

**ELECT 200D** 8.0 units

Fourth Semester Industrial Electricity
6.8 hours lecture, 6.8 hours laboratory
Prerequisite: ELECT 200C or ELECT 212
Grading: letter grade
This is an advanced course that requires knowledge of AC circuitry, systems, and components. This course covers the complete electrical design of a commercial/industrial facility inclusive of general electrical, AC motors, lighting, transformers and electrical load calculations. All design work is completed to applicable codes.

**ELECT 202** 3.0 units

Electrical Mathematics
3.4 hours lecture
Grading: letter grade
A study of mathematics used in the electrical and construction trades. Topics in arithmetic, fractions, decimals, percents, graphing, measurement and introduction to algebra are covered. This course is the same as CONST 201A.

**ELECT 204** 3.0 units

First Semester Fundamentals of DC Electricity
3.4 hours lecture
Prerequisite: ELECT 202
Corequisite: ELECT 210A
Grading: letter grade
This course is an introduction to direct current electrical theory, its practices, applications, nomenclature and components for students beginning electrical studies for occupational goals, continuing university education or for increasing skill levels. Included in this course are formulas used in electrical theory, information regarding proper use and selection of hand tools, materials, and wiring as practiced in the electrical maintenance and construction industry.

**ELECT 209** 3.0 units

Second Sem. Fund of Motors/Generators
3.4 hours lecture
Prerequisite: ELECT 200A or (ELECT 202 and ELECT 204).
Grading: letter grade
This course covers the operational theory and practices associated with motors and generators. This includes theory associated with motors, generators, motor controls, circuit diagrams, and wiring practices in the electrical maintenance and construction industry.

**ELECT 210A** 1.0 unit

Laboratory Practices 1
3.4 hours laboratory
Corequisite: ELECT 204
Grading: letter grade
This course covers laboratory work associated with the fundamentals of DC electricity, electromagnetism, series, parallel and combination circuits, wiring practice and hand tools.

**ELECT 210B** 1.0 unit

Laboratory Practices 2
3.4 hours laboratory
Prerequisite: ELECT 210A or ELECT 200A
Corequisite: ELECT 209
Grading: letter grade
This course covers lab work associated with the fundamentals of DC electricity, DC principles and practices, as well as fundamentals of DC motors and generators and motor controls. Motors and generators are characterized and connected with various hard wired motor control circuits.
Courses of Instruction

ELECT 210C  1.0 unit
Laboratory Practices 3
3.4 hours laboratory
Prerequisite: ELECT 210B or ELECT 200B
Corequisite: ELECT 212
Grading: letter grade
This course includes lab work associated with the fundamentals of Alternating Current electricity. Alternating Current principles, practices and safe wiring practices with hand tools and instrumentation are included.

ELECT 210D  1.0 unit
Laboratory Practices 4
3.4 hours laboratory
Prerequisite: ELECT 210C or ELECT 200C
Grading: letter grade
This course is designed to provide lab work activities that are associated with electrical measuring instruments, motors, transformers and electrical design.

ELECT 212  3.0 units
Third Semester Fund of AC Electricity
3.4 hours lecture
Prerequisite: ELECT 225 and ELECT 209 or ELECT 200B
Grading: letter grade
This course is an introduction to alternating current theory, practices and applications with studies of nomenclature and components. It is an advanced course that requires previous direct current electrical coursework and math.

ELECT 214  3.0 units
Fourth Semester AC Principles & Pract
3.4 hours lecture
Prerequisite: ELECT 212 or ELECT 200C
Recommended Preparation: ELECT 212
Grading: letter grade
This is an advanced course that requires knowledge of AC circuitry, systems, and components. This course covers the complete electrical design of a commercial/industrial facility inclusive of general electrical, AC motors, lighting, transformers and electrical load calculations. All design work is completed to applicable codes.

ELECT 225  4.0 units
Algebra and Trigonometry for Technicians
4.5 hours lecture
Prerequisite: MATH 805 or MATH 815 or ELECT 202 or Qualification through the LBCC assessment process for Math.
Grading: letter grade
This course will present basic algebra and trigonometry and their application to the solution of practical problems in technical (mechanical, electrical, construction) fields. This course is not open for credit to students registered in or with credit in MATH 225, 220, 230, 110 and 150. Formerly MATH 225.

ELECT 226  3.0 units
Solid State Fundamentals for Electrician
2.8 hours lecture, 1.7 hours laboratory
Prerequisite: ELECT 200B or ELECT 209
Grading: letter grade
This course covers electronic theory and practice as applied in industrial applications. Topics include component identification, schematic diagrams, circuit testing and troubleshooting industrial equipment. Safety issues involving high voltage industrial electronics are covered.

ELECT 227  3.0 units
D.C. and A.C. Variable Speed Drives
2.8 hours lecture, 1.7 hours laboratory
Prerequisite: ELECT 226
Grading: letter grade
This course covers the theory, circuit designs and application of direct current and alternating current variable speed drives. Topics include applications, testing and troubleshooting.

ELECT 230A  3.0 units
Robotics Technology — Design
2.8 hours lecture, 1.7 hours laboratory
Grading: letter grade
This course utilizes the engineering model of design, system integration and applications development as applied to the area of industrial and marine robotics technology, including power and control systems, troubleshooting, hydraulic and pneumatic systems, programming fundamentals, and issues relating to the operation of electrical equipment in harsh environments. Students may start the series in any segment to develop skills specific to each topic.

ELECT 230B  3.0 units
Robotics Technology — Integration
2.8 hours lecture, 1.7 hours laboratory
Grading: letter grade
This course utilizes the engineering model of design, system integration and applications development as applied to the area of industrial and marine robotics technology, including power and control systems, troubleshooting, hydraulic and pneumatic systems, programming fundamentals, and issues relating to the operation of electrical equipment in harsh environments. Students may start the series in any segment to develop skills specific to each topic.

ELECT 230C  3.0 units
Robotics Technology — Applications
2.8 hours lecture, 1.7 hours laboratory
Grading: letter grade
This course utilizes the engineering model of design, system integration and applications development as applied to the area of industrial and marine robotics technology, including power and control systems, troubleshooting, hydraulic and pneumatic systems, programming fundamentals, and issues relating to the operation of electrical equipment in harsh environments. Students may start the series in any segment to develop skills specific to each topic.

ELECT 240  3.0 units
Electrical Code-Residential
3.4 hours lecture
Prerequisite: ELECT 200A or ELECT 204
Grading: letter grade
This course is an introduction to National Electrical Code requirements for residential wiring. The interpretation of electrical wiring diagrams, material use, installation methods and calculation of electrical loads to size feeders and conductors is included.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Prerequisites</th>
<th>Grading</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECT 242</td>
<td>Electrical Code-Grounding</td>
<td>1.5</td>
<td>1.7</td>
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<td></td>
<td>This course covers National Electrical Code requirements for grounding. Grounding system components, principles of operation, design and fault current calculations are included.</td>
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<tr>
<td>ELECT 245</td>
<td>Electrical Code-Commercial</td>
<td>3.0</td>
<td>3.4</td>
<td></td>
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<td></td>
<td>This course covers National Electrical Code requirements for commercial, office and light industrial wiring. The electrical layout and design of commercial buildings, feeder circuit calculations, branch circuit calculations and circuit over current protection are included.</td>
</tr>
<tr>
<td>ELECT 250</td>
<td>Electrical Code-Industrial</td>
<td>3.0</td>
<td>3.4</td>
<td></td>
<td></td>
<td></td>
<td>This course covers National Electrical Code requirements for industrial applications. Materials and wiring methods for heavy industrial applications, life, safety and hazardous systems are included.</td>
</tr>
<tr>
<td>ELECT 253</td>
<td>OSHA Standards for Construction Safety</td>
<td>2.0</td>
<td>2.3</td>
<td></td>
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<td></td>
<td>This course was listed as T_I 203A for academic year 2013-2014 only. This course covers OSHA policies, procedures, and standards, as well as construction safety and health principles. Topics include scope and application of the OSHA construction standards. Special emphasis is placed on those areas that are the most hazardous, using OSHA standards as a guide. Upon successful course completion, the student will receive an OSHA 30 Hour Construction Outreach Training Completion Card.</td>
</tr>
<tr>
<td>ELECT 261</td>
<td>Introduction to Renewable Energy</td>
<td>3.0</td>
<td>3.4</td>
<td></td>
<td></td>
<td></td>
<td>This course will introduce students to renewable energy sources (wind, solar, micro-hydro, geothermal et. al.) along with the advantages and disadvantages of each. Suitable use for each energy source will be discussed, as well as emerging technology, products, and programs available that allow builders and owners to take advantage of renewables.</td>
</tr>
<tr>
<td>ELECT 262</td>
<td>Solar 1-Grid-Tied Solar Photovoltaics</td>
<td>3.0</td>
<td>2.8</td>
<td>1.7</td>
<td></td>
<td></td>
<td>This level 1 lecture/laboratory electrical course will introduce students to the components that make up a photovoltaic (PV) system and the function of each. Students will also learn how to install, troubleshoot, and maintain a residential solar electric system.</td>
</tr>
<tr>
<td>ELECT 263</td>
<td>Solar 2-Advanced Solar Photovoltaics</td>
<td>3.0</td>
<td>2.8</td>
<td>1.7</td>
<td>ELECT 245 or ELECT 250</td>
<td></td>
<td>In this level 2 lecture/laboratory course students build upon skills learned in ELECT 262 to design and implement a cost-effective stand-alone photovoltaic (PV) system with battery backup. Students will also learn how to analyze data from system monitoring hardware and software, and use that data to adjust a PV system for optimal performance.</td>
</tr>
<tr>
<td>ELECT 271</td>
<td>Electrical Cost Estimating 1</td>
<td>3.0</td>
<td>3.4</td>
<td></td>
<td></td>
<td></td>
<td>This course will present an introduction to electrical cost estimating, including take-off and listing procedures. It is designed for students preparing to enter electrical estimating occupations or electrical contracting work.</td>
</tr>
<tr>
<td>ELECT 275</td>
<td>Electrical Pipe Bending (A)</td>
<td>0.5</td>
<td>0.3</td>
<td>0.8</td>
<td></td>
<td></td>
<td>This course is a study of how to properly calculate, layout and bend Electrical Metallic Tubing (EMT) per Industry standards and National Electrical Code (NEC) standards.</td>
</tr>
<tr>
<td>ELECT 276</td>
<td>Electrical Pipe Bending (B)</td>
<td>0.5</td>
<td>0.3</td>
<td>0.7</td>
<td>ELECT 275</td>
<td></td>
<td>This course covers the proper methods to layout and bend rigid conduit. Methods taught include, hand bending and the use of mechanical and machine benders.</td>
</tr>
<tr>
<td>ELECT 277</td>
<td>Blueprint Reading for Electricians</td>
<td>3.0</td>
<td>3.4</td>
<td></td>
<td>ELECT 212 or ELECT 200C</td>
<td></td>
<td>This course is designed for students to comprehend, and correctly interpret blueprints used in the electrical and related construction trades.</td>
</tr>
<tr>
<td>ELECT 280</td>
<td>Traffic Signal Systems 1</td>
<td>3.0</td>
<td>2.8</td>
<td>1.7</td>
<td>ELECT 204</td>
<td></td>
<td>This first course in traffic signal systems includes instruction on the building and wiring of a working intersection. CalTrans and NEC Standards and requirements, copper wiring, controller, pole and signal head installation, and controller theory are covered in this hands-on course.</td>
</tr>
</tbody>
</table>
ELECT 283 3.0 units
Traffic Systems Communications
2.8 hours lecture, 1.7 hours laboratory
Recommended Preparation: ELECT 204
Grading: letter grade
This course provides instruction in Traffic Signal Communications Systems. The course content will cover communications theory, microwave, VHF/UHF radios, vision monitoring and detection, antenna systems. This hands-on course will further include the testing and troubleshooting of communications systems.

ELECT 284 3.0 units
Traffic Signal Controllers & Digital Systems
2.8 hours lecture, 1.7 hours laboratory
Prerequisite: ELECT 204
Grading: letter grade
This is a course in digital logic and microprocessor controls as applied to Traffic Signal Systems. This hands-on course will include troubleshooting of digital traffic controllers. Course topics will include, but are not limited to, interface logic, electronics, and theory of system operation.

ELECT 400 2.0 units
Electrical Certification Exam Prep
2.3 hours lecture
Grading: pass/no pass
This course prepares students to take the California Electrician Certification Exam. It includes testing methods, rapid code lookup, code calculations and applications. This course cannot be used for credit toward the certificate or degree in Electrical Technology.

EMERGENCY MEDICAL TECHNOLOGY (EMT)

EMT 251 3.0 units
Emergency Medical Technician
3.4 hours lecture
Recommended Preparation: BIO 60
Grading: letter grade
This course will enable the student to develop basic skills in the assessment, rescue, immediate treatment and transport of the urgently ill or injured client. Course content emphasizes identifying and correcting life-threatening conditions, identifying rescue activities and developing a systematic approach to the care of the client and the performance of rescue activities. Relevant information on traumatic injuries, medical emergencies, environmental hazards, rescue techniques and equipment will be integrated.

EMT 251L 1.5 units
Emergency Medical Technician Laboratory
5.1 hours laboratory
Corequisite: EMT 251
Recommended Preparation: BIO 60
Grading: pass/no pass
This course is designed to develop basic skills in the assessment, rescue, immediate treatment and transport of the urgently ill or injured client. Emphasis will be placed on identifying and correcting life threatening conditions, identifying rescue problems and developing a systematic approach to the care of the client and the performance of rescue activities. Integrated into this course will be relevant information on traumatic injuries, medical emergencies, environment hazards, rescue techniques and equipment.

EMT 252 1.0 unit
Emergency Medical Tech I Refresher
1.1 hours lecture, 0.6 hour laboratory
Prerequisite: Current EMT — 1 Certification.
Grading: letter grade
Formerly EMT 252AD. The EMT-1 must have certification that is current or not expired more than six months. This course will be a review and update of life support measures, CPR and use of emergency medical equipment and supplies for the certified EMT-I.

ENGINEERING (ENGR)

ENGR 3A 3.0 units
Engineering Graphics
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: MATH 120 or one year High School Geometry.
Recommended Preparation: One semester of DRAFT 201 or high school mechanical drawing or drafting.
Grading: letter grade
This course will review the methods of graphic expression common to the various fields of engineering. It will follow engineering drafting standards and procedures through working drawings. The use computers to prepare and study engineering drawings and solving engineering space problems by orthographic methods will be emphasized.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
ENGR 3B  3.0 units
Engineering Graphics
2.3 hours lecture, 4.5 hours laboratory
Prerequisite: ENGR 3A and MATH 40
Grading: letter grade
This course will review the principles of graphic expression through working drawings. It will expand on the principles of descriptive geometry as studied in ENGR 3A. The use of computer drafting software as well as charts, diagrams and graphic solutions are discussed.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGR 17  3.0 units
Electrical Engineering Circuits
3.4 hours lecture
Prerequisite: MATH 70 and PHYS 3B
Corequisite: MATH 70 and PHYS 3B
Grading: letter grade
This course provides an introduction to electrical circuits from an engineering perspective. This includes mesh and node equations, controlled sources, Thévenin and Norton equivalencies, natural response of RLC circuits, phasor analysis and other topics.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGR 17L  1.0 unit
Electrical Engineering Circuits Lab
3.4 hours laboratory
Prerequisite: ENGR 17 (may be taken concurrently)
Grading: letter grade
This course provides a laboratory study of electrical circuits and instrumentation to accompany the lecture course.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGR 35  3.0 units
Statics
3.4 hours lecture
Prerequisite: MATH 60
Corequisite: PHYS 3A
Grading: letter grade
This is a first course in mechanics that will enable engineering students to analyze any problem in a simple and logical manner and to apply to its solution a few, well-understood, basic principles. This course introduces students to statics of particles, rigid bodies, Equilibrium of two- and three-dimensional force systems employing free-body diagrams. Topics that will be examined are centroids, center of gravity, analysis of structures, friction, and forces in beams and cables.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGR 50  1.0 unit
Introduction to Engineering
1.1 hours lecture
Grading: pass/no pass
This course is an introduction to engineering concepts from various branches of engineering.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGR 54  3.5 units
Computer Methods
3.4 hours lecture, 2.3 hours laboratory
Prerequisite: MATH 60 (may be taken concurrently)
Grading: letter grade or pass/no pass
This course will introduce students to the nature of computers, algorithms, problem solving procedures and programming. This course is designed to explore computer methods used to solve various applications from engineering, computer science, physical sciences and math areas. C++ is the primary programming language. The course also introduces MATHEMATICA and MATLAB software with applications from Engineering, Science and Mathematics.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGLISH (ENGL)

ENGL 1  4.0 units
Reading and Composition
4.5 hours lecture
Prerequisite: Qualification through the LBCC assessment process for English or ENGL 105 or ESL 34.
Grading: letter grade
In this course, students read and analyze college-level texts in order to write researched, thesis-based essays.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 1H  4.0 units
Honors Reading and Composition
4.5 hours lecture
Prerequisite: Qualification for the Honors program. Qualification through the LBCC assessment process for English, or ENGL 105 or ESL 34.
Grading: letter grade
In this course, students read and analyze college-level texts in order to write researched, thesis-based essays. Eligibility for the Honors program is required for enrollment.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 2  4.0 units
Introduction to Literature/Composition
4.5 hours lecture
Prerequisite: ENGL 1 or ENGL 1H
Grading: letter grade or pass/no pass
This introduction to analysis of and writing about literature focuses on the three major genres of fiction, drama and poetry. Writing assignments are designed to develop students critical thinking and reading skills through the analysis and interpretation of the reading material.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 2H  4.0 units
Honors Introduction to Literature/Comp.
4.5 hours lecture
Prerequisite: ENGL 1 or ENGL 1H and Qualification for the Honors program.
Grading: letter grade or pass/no pass
This introduction to analysis of and writing about literature focuses on the three major genres of fiction, drama and poetry. Writing assignments are designed to develop students critical thinking and reading skills through the analysis and interpretation of the reading material.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
Courses of Instruction

reading skills through the analysis and interpretation of the reading material.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ENGL 3 4.0 units
Argumentative and Critical Writing
4.5 hours lecture
Prerequisite: ENGL 1
Grading: letter grade or pass/no pass
This course offers an introduction to the elements and uses of critical thinking and writing. Analytical, persuasive, evaluative, and argumentative writing will be emphasized, as well as the evaluation and use of both electronic and conventional sources.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 3H 4.0 units
Honors Argumentative & Critical Writing
4.5 hours lecture
Prerequisite: Qualification for the Honors Program and ENGL 1.
Grading: letter grade or pass/no pass
This course offers an introduction to the elements and uses of critical thinking and writing. Analytical, persuasive, evaluative, and argumentative writing will be emphasized, as well as the evaluation and use of both electronic and conventional sources.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 4 4.0 units
Critical Analysis of Literature
4.5 hours lecture
Prerequisite: ENGL 1, ENGL 1H or Qualification through the LBCC assessment process for English.
Grading: letter grade
This course develops critical thinking skills through the written analysis of literary elements in fiction, poetry, and drama. Writing assignments emphasize argumentative strategies and the effective use of primary and secondary sources.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 4H 4.0 units
Honors Critical Analysis of Literature
4.5 hours lecture
Prerequisite: ENGL 1 or ENGL 1H and Qualification for the Honors program.
Grading: letter grade
This course develops critical thinking skills through the written analysis of literary elements in fiction, poetry, and drama. Writing assignments emphasize argumentative strategies and the effective use of primary and secondary sources.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 6 3.0 units
Production of Literary Publications
2.3 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
Students will study the principles and practice involved in editing and producing complete literary publications ranging in size and complexity from small pamphlets to books.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ENGL 7 3.0 units
Editing a Literary Review
3.4 hours lecture
Grading: letter grade or pass/no pass
Students interested in editorial work will examine contemporary literary journals, reviews, and creative publications and analyze the basic philosophy of editing a journal. Also, they will have hands-on experience analyzing, considering, and choosing manuscripts appropriate to the standards of a literary journal.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ENGL 24 4.0 units
College Grammar
4.5 hours lecture
Grading: letter grade or pass/no pass
College Grammar is a transfer-level course designed to lead students through an examination of the English language, focusing on both theory and practice in grammar, usage, and mechanics. It is recommended for students who wish to strengthen their knowledge of grammar and to improve their skill in writing and speaking in English as well as for people who need a strong knowledge of grammar, usage and mechanics for professional purposes.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ENGL 26 3.0 units
Creative Writing 1
3.4 hours lecture
Prerequisite: Eligibility for ENGL 1.
Grading: letter grade or pass/no pass
This course offers an introduction to practical and supervised experience in the fundamentals of writing fiction and poetry, through the study and analysis of the works of established professional and peer writers. Students will practice writing in various genres and will be introduced to the workshop method.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 32 3.0 units
Masterpieces/Asian Literature (in English)
3.4 hours lecture
Prerequisite: Eligibility for ENGL 1.
Grading: letter grade or pass/no pass
This course is an introduction to Asian literature (in translation), with an emphasis on major literary works of India, China and Japan. The course is designed for students with a general interest in diverse literatures and for those who seek to understand the workings of the eastern mind in its unique historical, cultural and philosophical context.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 33 4.0 units
Mythology
4.5 hours lecture
Prerequisite: Eligibility for ENGL 1.
Grading: letter grade or pass/no pass
This class focuses on the study of myths of various nations and archetypal mythic patterns. The reading and analysis of literature is based on these myths and patterns.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
ENGL 33H 4.0 units
Honors Mythology
4.5 hours lecture
Prerequisite: Qualification for the Honors Program and ENGL 1.
Grading: letter grade or pass/no pass
This class focuses on the study of myths of various nations and archetypal mythic patterns. The reading and analysis of literature is based on these myths and patterns.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 35 3.0 units
Interpreting the Short Story
3.4 hours lecture
Prerequisite: Eligibility for ENGL 1.
Grading: letter grade or pass/no pass
This course is a study of the interpretation of the short story and application of the meanings found in short stories to real-life situations through class discussion and writing assignments.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 36 3.0 units
The Novel
3.4 hours lecture
Prerequisite: Eligibility for ENGL 1.
Grading: letter grade or pass/no pass
This course is a study of the novel as a literary form. Students will read representative works in the English, American, European Continental, and other traditions within their respective cultural contexts. The course will examine how literary movements and schools, critical concepts such as canonicity, and various formal elements shape conceptions of the novel.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 37 3.0 units
Science Fiction, Fantasy and Horror
3.4 hours lecture
Prerequisite: Eligibility for ENGL 1.
Grading: letter grade or pass/no pass
This course surveys major works of speculative fiction with an emphasis on major themes and genres.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 38 3.0 units
The Bible as Lit: The Old Testament
3.4 hours lecture
Prerequisite: Eligibility for ENGL 1.
Grading: letter grade or pass/no pass
This college-level course provides an examination and analysis of the narratives, poetry, parables, and letters of the Old Testament, emphasizing a literary point of view. The course is designed for students interested in broadening their understanding of the literary characteristics and cultural and historical contexts of various books of the Old Testament.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 39 3.0 units
The Bible as Lit: Apocrypha/New Testament
3.4 hours lecture
Prerequisite: Eligibility for ENGL 1.
Grading: letter grade or pass/no pass
This college-level course provides an examination and analysis of the narratives, poetry, parables, and letters of the New Testament and Apocrypha, emphasizing a literary point of view. The course is designed for students interested in broadening their understanding of the literary characteristics and cultural and historical contexts of the books of the New Testament and the Apocrypha.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 41 4.0 units
American Literature I
4.5 hours lecture
Prerequisite: Eligibility for ENGL 1.
Grading: letter grade or pass/no pass
This course is a survey of American literature from Native American oral literature to published texts from the time of the Civil War. Readings will include authors of diverse cultural backgrounds: African American, European American, Hispanic American, and Native American.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 42 4.0 units
American Literature II
4.5 hours lecture
Prerequisite: Eligibility for ENGL 1.
Grading: letter grade or pass/no pass
This course is a survey of American literature from the Civil War to the present.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 43A 4.0 units
Introduction to Shakespeare
4.5 hours lecture
Prerequisite: Eligibility for ENGL 1.
Grading: letter grade or pass/no pass
This course presents Shakespeare as a major literary figure in the context of the Elizabethan and Jacobean periods and the history of British literature. It involves reading, discussion, and analysis of seven plays and selected sonnets.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ENGL 43B 4.0 units
Introduction to Shakespeare
4.5 hours lecture
Prerequisite: Eligibility for ENGL 1.
Grading: letter grade or pass/no pass
This course presents Shakespeare as a major literary figure in the context of the Elizabethan and Jacobean periods and the history of British literature. This course involves reading, discussion, and analysis of seven later plays and selections from the longer poems.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 44</td>
<td>4.0</td>
</tr>
<tr>
<td>World Literature I</td>
<td>4.5 hours lecture</td>
</tr>
<tr>
<td>Prerequisite: Eligibility for ENGL 1.</td>
<td></td>
</tr>
<tr>
<td>Grading: letter grade or pass/no pass</td>
<td></td>
</tr>
<tr>
<td>This course offers a comparative survey of the historical development of world literature in translation from ancient times to the mid or late seventeenth century, including works from Europe, the Middle East, Asia, and other areas and reflecting philosophical, political, and artistic changes in western and eastern cultures.</td>
<td></td>
</tr>
<tr>
<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
<td></td>
</tr>
</tbody>
</table>

| ENGL 44H    | 4.0   |
| Honors World Literature I | 4.5 hours lecture |
| Prerequisite: Qualification for the Honors Program and Eligibility for ENGL 1. |
| Grading: letter grade or pass/no pass |
| This course offers an honors comparative survey of the historical development of world literature in translation from ancient times to the mid or late seventeenth century, including works from Europe, the Middle East, Asia, and other areas and reflecting philosophical, political, and artistic changes in western and eastern cultures. |
| Transfer Status: Transferable to UC, CSU; see counselor for limitations. |

| ENGL 45     | 4.0   |
| World Literature II | 4.5 hours lecture |
| Prerequisite: Eligibility for ENGL 1. |
| Grading: letter grade or pass/no pass |
| This course focuses on world literature with an emphasis on works in translation, covering works from the Renaissance to contemporary times and emphasizing an appreciation of aesthetic, philosophical, and cultural concepts. |
| Transfer Status: Transferable to UC, CSU; see counselor for limitations. |

| ENGL 45H    | 4.0   |
| Honors World Literature II | 4.5 hours lecture |
| Prerequisite: Qualification for the Honors Program and Eligibility for ENGL 1. |
| Grading: letter grade or pass/no pass |
| This course focuses on world literature with an emphasis on works in translation, covering works from the Renaissance to contemporary times and emphasizing an appreciation of aesthetic, philosophical, and cultural concepts. |
| Transfer Status: Transferable to UC, CSU; see counselor for limitations. |

| ENGL 46     | 4.0   |
| Survey of British Literature I | 4.5 hours lecture |
| Prerequisite: Eligibility for ENGL 1. |
| Grading: letter grade or pass/no pass |
| This course will focus on readings in the literature of the British Isles, with emphasis on English literature, Irish literature, and the works of other commonwealth nations, from the early medieval period to the last quarter of the eighteenth century. Coursework will emphasize the appreciation of historical, philosophical, political, social, and aesthetic concepts inherent in the works and their milieus. |
| Transfer Status: Transferable to UC, CSU; see counselor for limitations. |

| ENGL 47     | 4.0   |
| Survey of British Literature II | 4.5 hours lecture |
| Prerequisite: Eligibility for ENGL 1. |
| Grading: letter grade or pass/no pass |
| This course is a study of English literature from the late 18th (the time of the French Revolution) to the early 21st century. English literature is defined as literature written in English, though not by Americans and, thus, includes writers from such countries as South Africa, Ireland, Canada, and Australia, New Zealand. |
| Transfer Status: Transferable to UC, CSU; see counselor for limitations. |

| ENGL 48     | 3.0   |
| Modern & Contemporary Literature | 3.4 hours lecture |
| Prerequisite: Eligibility for ENGL 1. |
| Grading: letter grade or pass/no pass |
| This class is a study of imaginative literature written from the late 19th through the early 21st centuries. Writers chosen will represent world literature and will generally be those who have exerted a strong influence on contemporary attitudes, ideas, aesthetics, and values. The course will explore the revolutionary ways of writing and seeing that are peculiar to recent major artists. |
| Transfer Status: Transferable to UC, CSU; see counselor for limitations. |

| ENGL 48H    | 3.0   |
| Honors Modern/Contemporary Literature | 3.4 hours lecture |
| Prerequisite: Qualification for the Honors Program and Eligibility for ENGL 1. |
| Grading: letter grade or pass/no pass |
| This class is a study of imaginative literature written from the late 19th through the early 21st centuries. Writers chosen will represent world literature and will generally be those who have exerted a strong influence on contemporary attitudes, ideas, aesthetics, and values. The course will explore the revolutionary ways of writing and seeing that are peculiar to recent major artists. |
| Transfer Status: Transferable to UC, CSU; see counselor for limitations. |

| ENGL 49     | 3.0   |
| Film and Literature | 3.4 hours lecture |
| Prerequisite: Eligibility for ENGL 1. |
| Grading: letter grade or pass/no pass |
| This course will offer an examination of the ways in which literary works are related to film through the interdisciplinary study of structure and theme. The course will focus on analysis of cross-cultural/gender issues and artistic approaches, with focus on film adaptations of significant works from American,
Courses of Instruction

Western, and non-Western cultures, primarily novels and plays. Discussion will include ways in which literary works successfully or unsuccessfully translate into films.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**ENGL 49H** 3.0 units

Honors Film and Literature
3.4 hours lecture
Prerequisite: Qualification for the Honors Program and Eligibility for ENGL 1.
Grading: letter grade or pass/no pass
This course will offer an examination of the ways in which literary works are related to film through the interdisciplinary study of structure and theme. The course will focus on analysis of cross-cultural/gender issues and artistic approaches, with focus on film adaptations of significant works from American, Western, and non-Western cultures, primarily novels and plays. Discussion will include ways in which literary works successfully or unsuccessfully translate into films. As an honors course, English 49H will require more in-depth analysis of course materials and a higher standard for student work.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**ENGL 50A** 3.0 units

Introduction to Poetry Writing
3.4 hours lecture
Prerequisite: ENGL 26
Grading: letter grade or pass/no pass
Formerly ENGL 27A. This course offers an introduction to practical experience in writing, appreciating and analyzing poetry.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**ENGL 50B** 3.0 units

Intermediate Poetry Writing
3.4 hours lecture
Prerequisite: ENGL 50A
Grading: letter grade or pass/no pass
This course offers an intensive workshop atmosphere in which to write original poetry. This course focuses on theory, technique and practical discipline of writing poetry; and examines basic forms of poetry. Students discuss the techniques of poetry and present manuscripts of their own work for critical discussion. In addition, students learn to write critiques, demonstrating an intermediate knowledge of poetic technique and terminology.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**ENGL 50C** 3.0 units

Advanced Poetry Writing
3.4 hours lecture
Prerequisite: ENGL 50B
Grading: letter grade or pass/no pass
This course offers an intensive workshop atmosphere in which to write and revise original poetry. Students enrolled in this course should be presently working on a portfolio of poetry. This course is designed to assist students in developing and revising poetry manuscripts to meet contemporary publication standards.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**ENGL 50D** 3.0 units

Writing and Publishing Poetry
3.4 hours lecture
Prerequisite: ENGL 50C
Grading: letter grade or pass/no pass
This course offers an intensive workshop atmosphere focusing on preparation of a book length manuscript for publication. This course is designed to assist students in preparing and marketing professional manuscripts of a select number of poems for publication. Students will focus on current standards for query letters and other submission procedures. Manuscripts submitted for workshop will meet contemporary publication standards.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**ENGL 51A** 3.0 units

Introduction to Fiction Writing
3.4 hours lecture
Prerequisite: ENGL 26
Grading: letter grade or pass/no pass
Formerly ENGL 27B. This course offers an intensive workshop atmosphere in which to write short fiction. The course focuses on theory, technique and practical discipline of writing fiction, and examines models from various genres. Students discuss the techniques of storytelling and present manuscripts of their own work for critical discussion.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**ENGL 51B** 3.0 units

Intermediate Fiction Writing
3.4 hours lecture
Prerequisite: ENGL 51A
Grading: letter grade or pass/no pass
This course offers an intensive workshop atmosphere in which to write original short fiction and focuses on theory, technique and practical discipline of writing fiction. It also examines basic models of short stories. Students discuss the techniques of storytelling and present manuscripts of their own work for critical discussion. In addition, students learn to write critiques demonstrating an intermediate knowledge of literary technique and terminology.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**ENGL 51C** 3.0 units

Advanced Fiction Writing
3.4 hours lecture
Prerequisite: ENGL 51B
Grading: letter grade or pass/no pass
This course offers an intensive workshop atmosphere focusing on analysis of the elements of fictional structure through student examination of works in progress. Students enrolled in this course should be presently working on a portfolio of short stories. This course is designed to assist students in developing and revising manuscripts to meet contemporary publication standards.
Transfer Status: Transferable to CSU Only; see counselor for limitations.
### Courses of Instruction

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Title</th>
<th>Hours Details</th>
<th>Prerequisites</th>
<th>Grading</th>
<th>Transfer Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENGL 51D</strong></td>
<td>3.0</td>
<td>Writing and Publishing Fiction</td>
<td>3.4 hours lecture</td>
<td>ENGL 51C</td>
<td>letter grade or pass/no pass</td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td><strong>ENGL 52A</strong></td>
<td>3.0</td>
<td>Introduction to Novel Writing</td>
<td>3.4 hours lecture</td>
<td>ENGL 26</td>
<td>letter grade or pass/no pass</td>
<td>Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td><strong>ENGL 52B</strong></td>
<td>3.0</td>
<td>Intermediate Novel Writing</td>
<td>3.4 hours lecture</td>
<td>ENGL 52A</td>
<td>letter grade or pass/no pass</td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td><strong>ENGL 52C</strong></td>
<td>3.0</td>
<td>Advanced Novel Writing</td>
<td>3.4 hours lecture</td>
<td>ENGL 52B</td>
<td>letter grade or pass/no pass</td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td><strong>ENGL 52D</strong></td>
<td>3.0</td>
<td>Writing and Publishing The Novel</td>
<td>3.4 hours lecture</td>
<td>ENGL 52C</td>
<td>letter grade or pass/no pass</td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td><strong>ENGL 52E</strong></td>
<td>3.0</td>
<td>Intermediate Novel Writing</td>
<td>3.4 hours lecture</td>
<td>ENGL 26</td>
<td>letter grade or pass/no pass</td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td><strong>ENGL 52F</strong></td>
<td>3.0</td>
<td>Advanced Novel Writing</td>
<td>3.4 hours lecture</td>
<td>ENGL 52B</td>
<td>letter grade or pass/no pass</td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td><strong>ENGL 52G</strong></td>
<td>3.0</td>
<td>Writing and Publishing The Novel</td>
<td>3.4 hours lecture</td>
<td>ENGL 52C</td>
<td>letter grade or pass/no pass</td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
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</tbody>
</table>

**ENGL 51D**

Writing and Publishing Fiction
3.4 hours lecture
Prerequisite: ENGL 51C
Grading: letter grade or pass/no pass
This course offers an intensive workshop atmosphere focusing on preparation of a book length manuscript for publication. This course is designed to assist students in preparing and marketing professional manuscripts of a select number of short stories for publication. Students will focus on current standards for query letters and other submission procedures. Manuscripts submitted for workshop will meet contemporary publication standards.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**ENGL 52A**

Introduction to Novel Writing
3.4 hours lecture
Prerequisite: ENGL 26
Grading: letter grade or pass/no pass
Formerly ENGL 27E. This course offers an intensive workshop atmosphere in which to write an original work of book-length fiction. The course focuses on theory, technique and practical discipline of writing fiction, and examines models from various genres (literary classics, historical fiction, detective fiction, romance, science fiction and others). Students discuss the techniques of storytelling and present manuscripts of one’s own work for critical discussion.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**ENGL 52B**

Intermediate Novel Writing
3.4 hours lecture
Prerequisite: ENGL 52A
Grading: letter grade or pass/no pass
This course offers a workshop atmosphere focusing on planning and developing an original novel length manuscript. This course focuses on theory, technique, practical discipline of writing fiction and examines models from various genres (literary classics, historical fiction, detective fiction, romance, science fiction and others). Students discuss the techniques of storytelling and present manuscripts of their own work for critical discussion. In addition, students learn to write critiques demonstrating a working knowledge of literary technique and terminology.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**ENGL 52C**

Advanced Novel Writing
3.4 hours lecture
Prerequisite: ENGL 52B
Grading: letter grade or pass/no pass
This course offers an intensive workshop atmosphere focusing on analysis of the elements of dramatic fictional structure through student examination of works in progress. Students enrolled in this course should be presently working on a novel based manuscript. This course is designed to assist students in developing and revising manuscripts to meet contemporary publication standards.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.
Courses of Instruction

ENGLISH, WRITING READING CENTER (EWRC)

EWRC 890 0.5 unit
Sentence Structure
0.2 hour lecture, 1.0 hour laboratory
Grading: pass/no pass
Formerly EWRC 890AD. This course offers instruction and practice in a variety of sentence structure skills and is available to students enrolled in classes in any discipline. Instruction may focus on using complete sentences, correcting sentences, and varying sentence structure.

EWRC 891 0.5 unit
Spelling Principles
0.2 hour lecture, 1.0 hour laboratory
Grading: pass/no pass
Formerly EWRC 891AD. This course assesses individual spelling needs through a developmentally appropriate tool and provides instruction based on individual need.

EWRC 892 0.5 unit
Phonics/Reading Fundamentals
0.2 hour lecture, 1.0 hour laboratory
Grading: pass/no pass
This is an introductory course designed to teach the fundamental reading skills of phonics, word analysis, and comprehension through individualized assignments.

EWRC 893 0.5 unit
Punctuation
0.2 hour lecture, 1.0 hour laboratory
Grading: pass/no pass
Formerly EWRC 893AC. This course offers instruction and practice in a variety of punctuation skills and is available to students enrolled in classes in any discipline.

EWRC 895 0.5 unit
Functional Writing
0.3 hour lecture, 0.8 hour laboratory
Grading: pass/no pass
Formerly EWRC 895AB. This course offers individualized instruction in basic writing skills for students placed at this level. Activities include writing complete sentences, punctuating sentences, spelling correctly, paragraphing, and composing short pieces of writing to prepare students to succeed in future composition courses and to write effectively across the curriculum.

EWRC 896 0.5 unit
Writing Adjunct
0.2 hour lecture, 1.0 hour laboratory
Corequisite: ENGL 1, ENGL 105, ENGL 801A or ENGL 801B.
Grading: pass/no pass
Formerly EWRC 896AD. This course is a study of writing strategies that supplements ENGL 1, 105 and 801A-B, offering individualized instruction in all phases of the writing process (planning, writing, revision, editing) and helps improve skills in the conventions of writing English: grammar, usage, punctuation, spelling and mechanics.

EWRC 897 1.0 unit
Developmental Writing
0.5 hour lecture, 2.1 hours laboratory
Prerequisite: ENGL 105, 801A or 801B.
Grading: pass/no pass
Formerly EWRC 897AD. After being recommended for further work by a classroom English instructor, students in this course will receive the help they need beyond ENGL 105 or 801A-B in order to qualify for and/or succeed in the next higher course. This course provides individualized instruction in the composing process and helps improve skills in the conventions of written English: grammar, sentence structure, punctuation and spelling.

EWRC 899 0.5 unit
English Adjunct
0.2 hour lecture, 1.0 hour laboratory
Grading: pass/no pass
Formerly EWRC 899AD. This course offers instruction and practice in writing and research skills and is available to students enrolled in classes in any discipline. The class may provide instruction in the writing process (prewriting, planning, and editing), and in research and writing strategies. Instruction may focus on any aspect of writing from generating ideas or conducting research to organizing research notes or writing a bibliography.

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL 33X 4.0 units
College English with Computers for ESL
3.4 hours lecture, 3.4 hours laboratory
Prerequisite: ESL 56 or ESL 56X or Qualification through the LBCC assessment process for ESL.
Recommended Preparation: READ 882
Grading: letter grade
This course is an intensive study of reading and writing English focusing on the academic language skills needed for the AA and AS degrees. Skills taught include expository essay writing, summarizing, paraphrasing, reading comprehension, and critical analysis. Students use personal computers to complete the writing assignments. This course prepares students for ESL 34.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ESL 34X 4.0 units
College English/Computers for ESL Students
3.4 hours lecture, 3.4 hours laboratory
Prerequisite: ESL 33 or ESL 33X or Qualification through the LBCC assessment process for ESL.
Recommended Preparation: READ 882
Grading: letter grade
This course is an intensive study of reading and writing English focusing on the academic language skills needed for the AA and AS degrees and entrance into English 1 and English 82. Students use personal computers to complete the writing assignments. Skills taught include expository and argumentative essay writing, summarizing of academic readings and articles about current events, critical analysis of readings in literature,
Effective Writing for ESL
6.8 hours lecture
Prerequisite: One semester of ESL 147 or Qualification through the LBCC assessment process for ESL.
Grading: letter grade or pass/no pass
To prepare for college level writing, ESL 54 provides students with intensive sentence structure practice while they learn to write coherent paragraphs incorporating the use of transitional devices. Students will be introduced to and practice paraphrasing.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ESL 54X 
4.0 units
Effective Writing with Computers for ESL
3.4 hours lecture, 3.4 hours laboratory
Prerequisite: One semester of ESL 147 or Qualification through the LBCC assessment process for ESL.
Grading: letter grade or pass/no pass
To prepare for college level writing, ESL 54X provides ESL students with intensive sentence structure practice incorporating the use of transitional devices. Students will be introduced to and practice paraphrasing. Writing assignments will be prepared using computers.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ESL 56 
4.0 units
College Writing for ESL
6.8 hours lecture
Prerequisite: ESL 147 or ESL 54 or ESL 54X or Qualification through the LBCC assessment process for ESL.
Grading: letter grade or pass/no pass
This course focuses on intensive summarizing of articles and writing of conceptual paragraphs that incorporate the elements of cohesion, unity, and support to prepare students for college level writing. Rhetorical modes covered include narration, description, explanation, and persuasion.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ESL 56X 
4.0 units
College Writing with Computers for ESL
3.4 hours lecture, 3.4 hours laboratory
Prerequisite: ESL 147 or ESL 54 or ESL 54X or Qualification through the LBCC assessment process for ESL.
Grading: letter grade or pass/no pass
This course focuses on intensive summarizing of articles and writing of conceptual paragraphs that incorporate the elements of cohesion, unity, and support to prepare students for college level writing. Rhetorical modes covered include narration, description, explanation, and persuasion. All writing assignments are done on computers.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ESL 146 
2.0 units
Comprehensive Grammar I
6.8 hours laboratory
Prerequisite: ESL 645 or one semester of 845 or Qualification through the LBCC assessment process for English or ESL.
Recommended Preparation: One semester of ESL 812
Grading: letter grade or pass/no pass
Formerly ESL 146AB. This course is the first of two courses which together constitute a comprehensive review of the basic grammar of English in its entirety, together with the presentation of more complex grammatical features and troublesome exceptions, for students who have mastered or nearly mastered the fundamentals of English. The course provides in-depth study of the grammatical features and basic sentence patterns of English which students must command in order to succeed in academic, college-level courses. Also included in the course are the writing of multi-clause sentences and work with a variety of English idioms.

ESL 147 
2.0 units
Comprehensive Grammar II
6.8 hours laboratory
Prerequisite: ESL 645 or one semester of 845 or Qualification through the LBCC assessment process for English or ESL.
Recommended Preparation: One semester of ESL 814
Grading: letter grade or pass/no pass
Formerly ESL 147AB. This course is the second of two courses which together constitute a comprehensive review of the basic grammar of English in its entirety, together with the presentation of more complex grammatical features and troublesome exceptions, for students who have mastered or nearly mastered the fundamentals of English. The course provides in-depth study of the grammatical features and basic sentence patterns of English which students must command in order to succeed in academic, college-level courses. Also included in the course are the writing of multi-clause sentences and work with a variety of English idioms.

ESL 270 
2.0 units
Intercultural Communication
6.8 hours lecture
Prerequisite: ESL 645 or one semester of ESL 845 or Qualification through the LBCC assessment process for ESL.
Grading: letter grade or pass/no pass
A semester length course which gives intermediate students the skills needed to communicate effectively. American culture will be learned via role-playing activities, journal writings, interviews, readings, library/internet research, etc. Cross-cultural and intercultural differences will also be emphasized. Idiomatic language will be taught.

ESL 271 
2.0 units
Improving Fluency in Oral Communications
6.8 hours lecture
Prerequisite: ESL 645 or one semester of ESL 845 or Qualification through the LBCC assessment process for ESL.
Grading: letter grade or pass/no pass
An intermediate to advanced level communication course designed to develop fluency and confidence in spoken English, improve listening and pronunciation skills, teach common proverbs and idiomatic expressions used in Standard North American English, and provide practice in interpersonal communication skills.
Courses of Instruction

ESL 272 2.0 units
Communication for the World of Work
6.8 hours lecture
Prerequisite: ESL 645 or one semester of ESL 845 or Qualification through the LBCC assessment process for ESL.
Grading: letter grade or pass/no pass
An intermediate level communication course to aid ESL students who encounter job-related language difficulties. Cultural information, language for interviewing, job applications, understanding work-related policies and procedures will be taught. Idiomatic language related to the world of work will be emphasized.

ESL 273 2.0 units
Intermediate Grammar
6.8 hours lecture
Prerequisite: ESL 645 or one semester of ESL 845 or Qualification through the LBCC assessment process for ESL.
Grading: letter grade or pass/no pass
A semester long intermediate level ESL course which teaches grammatical concepts of the English language. Grammar is taught in form-focused language-learning activities with ample opportunity for communicative interaction.

ESL 274 2.0 units
Reading about the United States
6.8 hours lecture
Prerequisite: ESL 645 or one semester of ESL 845 or Qualification through the LBCC assessment process for ESL.
Grading: letter grade or pass/no pass
This intermediate level reading course acquaints students with various cultural aspects of life in the United States. Students read and discuss narratives and general information articles from journals.

ESL 275 2.0 units
Writing for the World of Work
6.8 hours lecture
Prerequisite: ESL 645 or one semester of ESL 845 or Qualification through the LBCC assessment process for ESL.
Grading: letter grade or pass/no pass
This course is an intermediate level course to help students who encounter writing difficulties on the job. Memos, faxes, cover letters, general business letters, resumes, punctuation, and autobiographies will be emphasized.

ESL 275X 2.0 units
Writing for the World of Work
6.8 hours laboratory
Grading: letter grade or pass/no pass
A computer-assisted, intermediate-level writing course which helps students who encounter writing difficulties on the job. Memos, faxes, cover letters, general business letters, resumes, punctuation, and autobiography will be taught.

ESL 602A 0.0 unit
Reading Skills for ESL Students 1
1.7 hours lecture
Grading: LBCC Non-Graded Course
This first course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read, and build vocabulary. ESL 602A teaches students how to read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students learn the rules for morphology, spelling and reading to assist them in vocabulary building, pronunciation and comprehension. Course content coincides with ESL 800AB.

ESL 602B 0.0 unit
Reading Skills for ESL Students 2
1.7 hours lecture
Recommended Preparation: ESL 602A
Grading: LBCC Non-Graded Course
This second course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read and build vocabulary. ESL 602B teaches students how to read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students build upon the content of ESL 602A and in addition learn to analyze a passage for specific content and define words in context. Course content coincides with ESL 801AB.

ESL 602C 0.0 unit
Reading Skills for ESL Students 3
1.7 hours lecture
Recommended Preparation: ESL 602B
Grading: LBCC Non-Graded Course
This third course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read and build vocabulary. ESL 602C teaches students how to read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students build upon the content of ESL 602B and in addition learn to analyze a passage for specific content and define words in context. Course content coincides with ESL 802AB.

ESL 602D 0.0 unit
Reading Skills for ESL Students 4
1.7 hours lecture
Recommended Preparation: ESL 602C
Grading: LBCC Non-Graded Course
This fourth course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read and build vocabulary. ESL 602D teaches students how to read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students build upon the content of ESL 602C and in addition learn to make inferences and support opinions about reading selections. Course content coincides with ESL 803AB.

ESL 602E 0.0 unit
Reading Skills for ESL Students 5
1.7 hours lecture
Recommended Preparation: ESL 602D
Grading: LBCC Non-Graded Course
This fifth course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read and build vocabulary. ESL 602E teaches students how to read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with
material appropriate to this level, students build upon the content of ESL 602D and in addition learn to compare characters in readings and differentiate word meaning by context. Course content coincides with ESL 804AB.

**ESL 602F**

**Reading Skills for ESL Students 6**

1.7 hours lecture  
Recommended Preparation: ESL 602E  
Grading: LBCC Non-Graded Course  
This sixth course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read and build vocabulary. ESL 602F teaches students how to read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students build upon the content of ESL 602E and in addition learn to identify central conflicts of stories and make inferences based on facts and details. Course content coincides with ESL 805AB.

**ESL 640**

**English for Everyday 0**

6.8 hours lecture  
Grading: LBCC Non-Graded Course  
This course is the first of a six-course series in the basics of English structure designed to bring students up to basic college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features and on comprehension of spoken and written standard North American English.

**ESL 641**

**English for Everyday 1**

6.8 hours lecture  
Prerequisite: ESL 640 or ESL 840 or Qualification through the LBCC assessment process for ESL.  
Grading: LBCC Non-Graded Course  
This course is the second of a six-course series in the basics of English structure designed to bring students up to basic college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features and on comprehension of spoken and written standard North American English.

**ESL 642**

**English for Everyday 2**

6.8 hours lecture  
Prerequisite: ESL 641 or one semester of ESL 841 or Qualification through the LBCC assessment process for ESL.  
Grading: LBCC Non-Graded Course  
This course is the third in a six-course series in the basics of English structure designed to bring students up to basic college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features and on comprehension of spoken and written Standard North American English for natives.

**ESL 643**

**English for Everyday 3**

0.0 unit  
6.8 hours lecture  
Prerequisite: ESL 642 or one semester of ESL 842 or Qualification through the LBCC assessment process for ESL.  
Grading: LBCC Non-Graded Course  
This course is the fourth of a six-course series in the basics of English structure designed to bring students up to basic college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features and on comprehension of spoken and written standard North American English.

**ESL 644**

**English for Everyday 4**

0.0 unit  
6.8 hours lecture  
Prerequisite: ESL 643 or one semester of ESL 843 or Qualification through the LBCC assessment process for ESL.  
Grading: LBCC Non-Graded Course  
This course is the fifth of a six-course series in the basics of English structure designed to bring students up to basic college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features and on comprehension of spoken and written standard North American English.

**ESL 645**

**English for Everyday 5**

0.0 unit  
6.8 hours lecture  
Prerequisite: ESL 644 or ESL 844 or Qualification through the LBCC assessment process for ESL.  
Grading: LBCC Non-Graded Course  
This course is the sixth of a six-course series in the basics of English structure designed to bring students up to basic college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features and on comprehension of spoken and written standard North American English.

**ESL 800**

**Basic ESL Reading**

0.5 unit  
1.7 hours lecture  
Grading: pass/no pass  
This first course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read, and build vocabulary. ESL 800AB teaches students how to read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students learn the rules for morphology, spelling and reading to assist them in vocabulary building, pronunciation and comprehension. Course content coincides with ESL 602A.

**ESL 801**

**Reading Skills for ESL Students**

0.5 unit  
1.7 hours laboratory  
Recommended Preparation: One semester of ESL 800.  
Grading: pass/no pass  
Formerly ESL 801AB. This course is the second course in a series of seven reading skills courses. In ESL 801, students read for comprehension and to build vocabulary. Students will identify, reproduce and comprehend words, sentences, paragraphs and passages without the dependency on a dictionary. Working with
materials appropriate to this level, students build upon the content of ESL 800 and learn to analyze a passage for specific content and define words in context. The course content of ESL 801 coincides with ESL 602B.

ESL 802 0.5 unit
Reading Skills for ESL Students
1.7 hours laboratory
Recommended Preparation: One semester of ESL 801.
Grading: pass/no pass
Formerly ESL 802AB. This course is the third course in a series of seven reading skills courses. In ESL 802, students identify, reproduce, and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with materials appropriate to this level, students build upon the content of ESL 801, analyze a passage for specific content, and define words in context. The course content of ESL 802 coincides with ESL 602C.

ESL 803 0.5 unit
Reading Skills for ESL Students
1.7 hours laboratory
Recommended Preparation: One semester of ESL 802.
Grading: pass/no pass
Formerly ESL 803AB. This course is the fourth course in a series of seven reading skills courses. In ESL 803, students identify, reproduce, and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with materials appropriate to this level, students build upon the content of ESL 802, and analyze a passage for specific content, and define words in context. The course content of ESL 803AB coincides with ESL 602D.

ESL 804 0.5 unit
Reading Skills for ESL Students
1.7 hours lecture
Recommended Preparation: One semester of ESL 803.
Grading: pass/no pass
Formerly ESL 804AB. This course is the fifth course in a series of seven reading skills courses. In ESL 804, students read for comprehension to build vocabulary. Students will identify, reproduce and comprehend words, sentences, paragraphs and passages with the dependency on a dictionary. Working with materials appropriate to this level, students build upon the content of ESL 803 and learn to analyze a passage for specific content and define words in context. The course content of ESL 804 coincides with ESL 602E.

ESL 805 0.5 unit
Reading Skills for ESL Students
1.7 hours lecture
Recommended Preparation: One semester of ESL 804.
Grading: pass/no pass
Formerly ESL 805AB. This sixth course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read and build vocabulary. In ESL 805, students read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students build upon the content of ESL 804 and in addition learn to identify central conflicts of stories and make inferences based on facts and details. The course content of ESL 805AB coincides with ESL 602F.

ESL 806 0.5 unit
Reading Skills for ESL Students
1.7 hours lecture
Recommended Preparation: One semester of ESL 805AB.
Grading: pass/no pass
Formerly ESL 806AB. This seventh course in a series of seven reading skills courses is designed to teach ESL students how to read, comprehend what they read and build vocabulary. In ESL 806, students read and comprehend words, sentences, paragraphs and passages or texts without the dependency on a dictionary. Working with material appropriate to this level, students build upon the content of ESL 805 and learn to identify central conflicts of stories and make inferences based on facts and details. The course content of ESL 806 coincides with ESL 602G.

ESL 810A 1.0 unit
Fundamentals of English Grammar
3.4 hours laboratory
Recommended Preparation: ESL 645/845 or Equivalent skills as determined by ESL placement process.
Grading: pass/no pass
Formerly ESL 810. This course is designed for ESL students in the reading (ESL 860-861) and/or writing (ESL 54/56, ENGL 801 A /B) classes. It is the first of a two-course sequence designed to introduce grammatical terminology and guide intermediate ESL students to mastery of the seven major parts of speech. ESL 810A emphasizes the use of verb tenses and agreement between subject and verb, article and noun, as well as verb and adverb. It emphasizes the correct construction of phrases, including noun, verb, and prepositional phrases, and simple sentences.

ESL 810B 1.0 unit
Fundamentals of English Grammar 2
3.4 hours laboratory
Recommended Preparation: ESL 810A
Grading: pass/no pass
This course is designed for ESL students in the reading (ESL 862-863/READ 82) and/or writing (ESL 33/34, ENGL 105, 1) classes. This course is the second of a two-course sequence designed for high-intermediate ESL students. It enables students to master correct English word order at the phrase, simple sentence, compound sentence and complex sentence level. Students continue to master the usage and word order of the seven major parts of speech, the relationship between phrases and clauses, and the relationship between independent and dependent clauses, focusing on adverbial phrases, noun clauses, adjective clauses, and adverbial/subordinate clauses.

ESL 812 0.5 unit
Reading for Information and Pleasure
1.7 hours lecture
Recommended Preparation: ESL 645 or ESL 845 or placement course recommendation for ESL 146.
Grading: pass/no pass
Formerly ESL 812AB. This course is designed to improve students’ ability to extract essential information from academic passages of a variety of written English material while building vocabulary, improving dictionary skills, and developing comprehension and critical reading skills.
### Courses of Instruction

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Course Information</th>
</tr>
</thead>
</table>
| ESL 813     | 0.5   | Conversation 2 | 1.7 hours lecture  
Formerly ESL 813AB. This course develops conversational competence and confidence in whole-class, small-group, and partner interactions. Emphasis is on the comprehension and evaluation of oral communications as students practice expressing opinions, feelings, ideas, and abstract concepts. |
| ESL 814     | 0.5   | Composition for ESL Students | 1.7 hours lecture  
Recommended Preparation: ESL 645 or ESL 845 or placement course recommendation for ESL 146.  
Grading: pass/no pass  
Formerly ESL 814AB. This course (Composition) offers intermediate level ESL students systematic instruction and practice in the construction of short connected series of sentences which state an opinion, describe a process, give information or instructions, or report an experience. This course provides instruction and practice in organizing ideas and in identifying and writing topic and support sentences. |
| ESL 815     | 2.0   | Accent Reduction | 6.8 hours laboratory  
Recommended Preparation: ESL 645 or ESL 845  
Grading: pass/no pass  
This intensive semester-long pronunciation course for intermediate to advanced non-native speakers focuses on the mastery of the English vowel/consonant sound system, stress patterns, melody, rhythm, and intonation of intelligible speech. Extended contextual practice enables students to modify nonstandard pronunciation patterns and achieve improved oral communication. |
| ESL 818     | 0.5   | Vocabulary Development | 1.7 hours lecture  
Grading: pass/no pass  
Formerly ESL 818AB. In this course, nonnative students prepare for academic success in institutions of higher learning by studying the general academic vocabulary encountered across college disciplines. Instruction focuses on incorporating vocabulary mastery strategies that stimulate students to become active lifelong learners of the North American English lexicon. |
| ESL 840     | 2.0   | Introduction to College English 0 | 6.8 hours laboratory  
Formerly ESL 840AB. This course is the first of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression. |
| ESL 841     | 2.0   | Introduction to College English I | 6.8 hours laboratory  
Prerequisite: ESL 640 or ESL 840 or Qualification through the LBCC assessment process for ESL.  
Grading: pass/no pass  
Formerly ESL 841AB. This course is the second of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression. |
| ESL 842     | 2.0   | Introduction to College English 2 | 6.8 hours laboratory  
Prerequisite: ESL 641 or one semester of ESL 841 or Qualification through the LBCC assessment process for ESL.  
Grading: pass/no pass  
Formerly ESL 842AB. This course is the third of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression. |
| ESL 843     | 2.0   | Introduction to College English 3 | 6.8 hours laboratory  
Prerequisite: ESL 642 or one semester of ESL 842 or Qualification through the LBCC assessment process for ESL.  
Grading: pass/no pass  
Formerly ESL 843AB. This course is the fourth of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression. |
| ESL 844     | 2.0   | Introduction to College English 4 | 6.8 hours laboratory  
Prerequisite: ESL 643 or one semester of ESL 843 or Qualification through the LBCC assessment process for ESL.  
Grading: pass/no pass  
Formerly ESL 844AB. This course is the fifth of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression. |
ESL 845 2.0 units
Introduction to College English 5
6.8 hours laboratory
Prerequisite: ESL 644 or ESL 844 or Qualification through the LBCC assessment process for ESL.
Grading: pass/no pass
Formerly ESL 845AB. This course is the sixth of a six-course series in the basics of English structure designed to bring beginners up to college level in the language and prepare them for success in academic and vocational programs offered by the college. Emphasis is on the mastery of productive grammatical features, comprehension of spoken English and correct written expression.

ESL 860 4.0 units
Reading & Vocabulary 1
3.4 hours lecture, 3.4 hours laboratory
Prerequisite: ESL147 or qualification through the LBCC assessment process for ESL.
Grading: pass/no pass
This course is an initiation to academic English reading, focusing on the foundational skills necessary to decode and comprehend academic discourse, including an introduction to morphology and syntax. Recommended for non-native speakers of English.

ESL 861 4.0 units
Reading & Vocabulary 2
3.4 hours lecture, 3.4 hours laboratory
Prerequisite: ESL 860 or READ 880 or qualification through the LBCC assessment process for Reading.
Grading: pass/no pass
This course focuses on reading skills including comprehension, vocabulary development and strategies for fluent reading of academic texts. More emphasis is placed on morphological and syntactical structures in addition to semantic cues. Recommended for non-native speakers of English.

ESL 862 4.0 units
Reading & Vocabulary 3
3.4 hours lecture, 3.4 hours laboratory
Prerequisite: ESL 861 or qualification through the LBCC assessment process for Reading.
Grading: pass/no pass
This course focuses on reading skills including comprehension, vocabulary development and strategies for fluent reading of academic texts. More emphasis is placed on morphological and syntactical structures in addition to semantic cues. Recommended for non-native speakers of English.

ESL 863 4.0 units
Reading & Vocabulary 4
3.4 hours lecture, 3.4 hours laboratory
Prerequisite: ESL 862 or Qualification through the LBCC assessment process for Reading.
Grading: pass/no pass
In this course, students will continue learning academic reading skills presented in ESL 860, 861, and 862. The emphasis is on critical reading of expository prose and the acquisition of advanced comprehension skills and strategies necessary for success in content courses, including advanced paragraph and essay comprehension, critical reading, and rhetorical patterns.

This course provides instruction in the strategies necessary for academic college reading with an emphasis on the application of comprehension, vocabulary and critical reading skills in academic texts. Recommended for non-native speakers of English.

ENGLISH AS A SECOND LANGUAGE, LEARNING CENTER (ESLLC)

ESLLC 699 0.0 unit
Basic Skills for ESL Students
3.4 hours laboratory
Grading: LBCC Non-Graded Course
This course provides individualized programmed instruction for non-native speakers of English who are enrolled in courses and need to improve their mastery of English as a Second Language or who are enrolled in ESL courses but need additional assistance in building or improving literary or communicative skills.

ENVIRONMENTAL SCIENCE (ENVRS)

ENVRS 1 3.0 units
Energy for the Future
3.4 hours lecture
Grading: letter grade or pass/no pass
This is an introductory physical science course which will familiarize the student with the fundamental principles of environmental systems and discuss current environmental issues. Interpretation of data in drawing a conclusion is stressed, along with the ability to criticize methods of data collection and experimentation. Topics include basic physical science, energy production and consumption, scarcity of resources, conservation, pollution, governmental regulation, and developments in environmental remediation.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

FAMILY AND CONSUMER STUDIES (FACS)

FACS 50 3.0 units
Consumer Awareness
3.4 hours lecture
Grading: letter grade or pass/no pass
This course covers personal finance, debt reduction, and investment for individuals and families. Topics include monthly budgeting for food, clothing, housing, transportation, health care, investing and insurance. Additional topics that will be examined are short-term and long-term financial goals related to savings, investments, insurance and wills, and consumer rights and responsibilities. This course is applicable for personal and professional use.
Transfer Status: Transferable to CSU Only; see counselor for limitations.
FACS 64 3.0 units
Life Management
3.4 hours lecture
Grading: letter grade or pass/no pass
This course provides individuals with skills for understanding and using resources for effective functioning now and in the future. Major topics include steps in goal setting; problem solving and value clarifications; time, energy, stress, and conflict management; education and career planning; effect of cultural forces and future trends on goals, values, standards, and time management.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**FASHION (FD)**

FD 3 2.0 units
Intro to Careers in Design/Merchandising
2.3 hours lecture
Grading: letter grade or pass/no pass
This course surveys the fashion industry and related occupations emphasizing employment opportunities, personal qualifications and skills required for employment.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 5 2.0 units
Intro/Manufacturing for Design/Merchan
2.3 hours lecture
Grading: letter grade or pass/no pass
This course serves as an introduction to garment manufacturing in the apparel industry; from the design concept through sourcing and pricing to the production of a clothing line. The course is required for fashion design and fashion merchandising majors.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 9 3.0 units
Clothing Selection
3.4 hours lecture
Grading: letter grade or pass/no pass
Apparel selection for the individual and family based on aesthetic guidelines, cultural influences and consumer needs.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 10 3.0 units
Textile Fibers and Fabrics
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is a study of textile fibers and fabrics, their production/development, environmental impact, selection, use and care of wearing apparel and home furnishings. The course also covers current and future textile production and how appropriate performance characteristics are incorporated into materials and products. This course is required for all Fashion Design and Fashion Merchandising majors.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

FD 20 3.0 units
Introduction to Fashion Merchandising
3.4 hours lecture
Grading: letter grade or pass/no pass
This course explains and illustrates the scope of the fashion industry, its value, development and job potential. Included is an overview of fashion, from its history, cyclical nature and development to the materials, producers, and retailers that influence the business on a global level. Also covers the latest industry trends, including developments in sustainability and the impact of social media on fashion marketing.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 22A 1.5 units
Merchandising for Profit I
1.7 hours lecture
Recommended Preparation: FD 20
Grading: letter grade or pass/no pass
This course covers the calculation, interpretation and analysis of the profit and loss statement. Basic pricing and repricing of merchandise and the importance of markup to profitable merchandising is explained and discussed. The course is typically offered for 9 weeks.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 22B 1.5 units
Merchandising for Profit II
1.7 hours lecture
Recommended Preparation: FD 20
Grading: letter grade or pass/no pass
This course emphasizes quantitative merchandising techniques as applied to inventory and dollar control, discounts, dating procedures and shipping terms. The course is typically offered for 9 weeks.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 23 3.0 units
Fashion/Merchandise Buying
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is designed to provide knowledge of the functions of buying merchandise for retail or wholesale businesses. It is required for all Fashion Merchandising Majors.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 24 1.5 units
Beginning Sewing
1.1 hours lecture, 2.3 hours laboratory
Grading: letter grade or pass/no pass
Formerly FD 24AB. This course covers the construction of simple garments using basic techniques of clothing construction. Principles and methods related to constructing both woven and knit fabrics will be covered.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 25 1.5 units
Intermediate Sewing
1.1 hours lecture, 2.3 hours laboratory
Grading: letter grade or pass/no pass
Formerly FD 25AB. This course focuses on intermediate clothing construction techniques as they apply to both woven and knit fabrics. Typical projects include a...
tailored shirt or blouse, fitted slacks with a waistband and knit shirts with neckline variations.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 26 2.0 units
Advanced Sewing
1.1 hours lecture, 3.4 hours laboratory
Recommended Preparation: One semester of FD 24 and FD 25
Grading: letter grade or pass/no pass
Formerly FD 26AB. This course uses advanced construction techniques in working with complex patterns and difficult fabrics. The student must consider proper selection of line and design for his/her figure, as well as fabric and equipment for professional clothing construction.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 27 1.5 units
Production Sewing
1.1 hours lecture, 2.3 hours laboratory
Recommended Preparation: FD 24
Grading: letter grade or pass/no pass
Formerly FD 27AB. This course focuses on the principles and methods of stitching and garment construction on power industrial machines as applied to the production methods of the garment manufacturing industry. Occupational certificate is awarded upon completion of eight units.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 29 2.0 units
Tailoring
1.1 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
Formerly FD 29AB. This course covers the principles of tailoring techniques and finishes as applied to men’s or women’s clothing.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 32 3.0 units
History of Fashion
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is a survey of the evolution of clothing styles from the ancient Egyptian to the present time period. Content includes the importance of costume as a social record and how costume has influenced lifestyle, culture and contemporary fashions. The course emphasizes costume, its effects and relationships to political, social and economic conditions.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 36A 1.5 units
Pattern Drafting I: Basic Block
1.1 hours lecture, 1.7 hours laboratory
Recommended Preparation: FD 24 or Beginning sewing skills
Grading: letter grade or pass/no pass
This is a beginning course in pattern drafting. The students will develop a basic block pattern for the commercial dress form or individual figure.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 36B 1.5 units
Pattern Drafting II: Pattern Manipulation
1.1 hours lecture, 1.7 hours laboratory
Recommended Preparation: FD 36A
Grading: letter grade or pass/no pass
This is an intermediate course in the manipulation of the basic blocks drafted for commercial dress forms or individual figure.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 37A 1.5 units
Pattern Draping I: Basic Sloper
1.1 hours lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass
This is a beginning course which includes freehand methods of pattern making and creating the basic sloper in muslin on dress forms. Each muslin is turned into a paper pattern, cut and constructed to produce the finished garment.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 37B 1.5 units
Pattern Draping II: Sloper Manipulations
1.1 hours lecture, 1.7 hours laboratory
Recommended Preparation: FD 37A
Grading: letter grade or pass/no pass
This is an intermediate course in the freehand methods (draping) of manipulating a basic sloper to create finished designs. Each muslin is turned into a paper pattern, cut and constructed to produce a finished garment.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 38A 3.0 units
Fashion Design I
2.3 hours lecture, 3.4 hours laboratory
Recommended Preparation: FD 36A and FD 36B, FD 24 and one semester of FD 214.
Grading: letter grade or pass/no pass
This advanced course provides the opportunity for students to design, illustrate, pattern draft and construct full-scale sample designs for a portfolio or fashion showing.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 38B 3.0 units
Fashion Design II
2.3 hours lecture, 3.4 hours laboratory
Recommended Preparation: FD 37B and FD 24 and one semester of FD 214.
Grading: letter grade or pass/no pass
This is an advanced course that provides an opportunity for students to design, illustrate, drape and construct full scale sample designs for a portfolio or fashion showing.

Transfer Status: Transferable to CSU Only; see counselor for limitations.
Courses of Instruction

FD 38C 3.0 units
Fashion Design III
2.3 hours lecture, 3.4 hours laboratory
Recommended Preparation: FD 38A and FD 38B
Grading: letter grade or pass/no pass
This is an advanced course that provides an opportunity to design, illustrate, draft, drape and construct full-scale designs for a portfolio or fashion showing.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 38D 3.0 units
Fashion Design IV
2.3 hours lecture, 3.4 hours laboratory
Recommended Preparation: FD 38A, FD 38B, FD 38C
Grading: letter grade or pass/no pass
This advanced course provides an opportunity to design a complete line for a given season and classification (i.e., sportswear, junior market). The student will produce a line presentation board consisting of a target customer profile, price range, season, market and sketches. The student will complete production patterns, cost sheets, specification sheets, and toiles for three production quality garments.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 39A 1.0 unit
Garment Technical Packages
1.1 hours lecture, 0.6 hour laboratory
Grading: letter grade or pass/no pass
This course covers the development of offshore technical packages to include: garment knock-offs, pattern adjustment, appropriate fit, fabric qualities and package specifications.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 40 1.5 units
Advanced and Production Pattern Drafting
1.1 hours lecture, 2.3 hours laboratory
Recommended Preparation: FD 36B
Grading: letter grade or pass/no pass
Formerly FD 40AB. This course surveys the problems of advanced pattern manipulation and production pattern as related to developing a commercial fit for original designs. Also covered are techniques of industrial procedures found in the garment industry and pattern grading.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 41 2.5 units
Fashion Show Production
2.3 hours lecture, 2.3 hours laboratory
Grading: letter grade or pass/no pass
Formerly FD 41AD. Students plan and implement a professional fashion show production from concept to runway. Information on the details of planning, budgeting and producing fashion oriented events, plus the opportunity for “hands-on” experience in producing an actual event will be provided.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 45A 1.5 units
Computer Applications in Fashion
1.1 hours lecture, 2.3 hours laboratory
Grading: letter grade or pass/no pass
Formerly FD 245AD. This course is designed to teach students to effectively use a variety of computer word processing/illustration/design programs frequently used in the fashion industry: Microsoft Word, Microsoft PowerPoint and Adobe Illustrator.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 45B 1.5 units
Advanced Computer Fashion Illustration
1.1 hours lecture, 2.3 hours laboratory
Grading: letter grade or pass/no pass
This course is designed to teach students to effectively use computer Illustration/design programs to create line sheets, color ways, renderings, recolorations and graphic placements. Students will gain experience in using industry standard image editing software such as Adobe Illustrator and Photoshop.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 70 1.0 unit
Work Experience Issues-Fashion Design
1.1 hours lecture
Corequisite: Enrollment in FD 71, FD 72 or FD 73.
NOTE: You must enroll in the corequisite course before enrolling in this course.
Grading: letter grade or pass/no pass
This course is a seminar related to work experience. Included is discussion of work experience objectives, career goals, employment search, communication skills and problem solving. Creation of resumes and cover letters will be covered and completed.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 71 1.0 unit
Work Experience-Fashion Design
4.6 hours laboratory
Corequisite: Concurrent enrollment in at least one additional course in the discipline.
Grading: letter grade or pass/no pass
This course involves vocational learning experiences through employment (on-the-job, paid or non-paid) directly related to the industry. This course may be repeated 4 times (semesters).
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FD 72 2.0 units
Work Experience-Fashion Design
9.3 hours laboratory
Corequisite: Concurrent enrollment in at least one additional course in the discipline.
Grading: letter grade or pass/no pass
This course is Vocational learning experiences through employment (on-the-job, paid or non-paid) directly related to the industry.
Transfer Status: Transferable to CSU Only; see counselor for limitations.
### Courses of Instruction

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
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<tbody>
<tr>
<td><strong>FD 200</strong></td>
<td><strong>1.0 unit</strong></td>
</tr>
<tr>
<td>Fashion Prediction/Promotion: Crit View</td>
<td>1.1 hours lecture, 3.4 hours laboratory</td>
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<tr>
<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>This course presents techniques for critical viewing of fashion prediction and promotion services including services which may include Video Fashion Monthly, Video Fashion News, National Association of Men’s Sportswear Buyers, California Apparel News, Daily News Record, Fashion News Report and Ready To Wear Report.</td>
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<th>Course Code</th>
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<tr>
<td><strong>FD 214</strong></td>
<td><strong>2.0 units</strong></td>
</tr>
<tr>
<td>Quick Sketch Croquis Drawing</td>
<td>1.1 hours lecture, 3.4 hours laboratory</td>
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<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>Formerly FD 214AB. This beginning sketch course focuses on the skills necessary for the fashion industry. Students will learn to draw all aspects of garments on the figure and in flat technical drawings using a croquis (template). Fabrics will be rendered in color using marker techniques. The updated fashion figure proportion will be covered. Students will focus on layout of line presentation boards.</td>
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<tr>
<td><strong>FD 215</strong></td>
<td><strong>2.0 units</strong></td>
</tr>
<tr>
<td>Fashion Sketching I</td>
<td>1.1 hours lecture, 3.4 hours laboratory</td>
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<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>Formerly FD 215AB. This is a beginning drawing class for both design and merchandising students which stresses the basic proportions of the female and male fashion figure. The course will cover figure proportion, body movement, action poses, head, hand, foot and leg studies, and various drawing styles and mediums for expressing the fashion figure.</td>
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<tr>
<td><strong>FD 216</strong></td>
<td><strong>2.0 units</strong></td>
</tr>
<tr>
<td>Fashion Portfolio Development</td>
<td>1.1 hours lecture, 3.4 hours laboratory</td>
</tr>
<tr>
<td>Recommended Preparation: One semester of FD 214 and FD 215 and FD 245</td>
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<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>Formerly FD 216AB. This advanced course focuses on the skills necessary to produce a well-organized and thoroughly planned virtual portfolio and portfolio book to be presented on job interviews. The class emphasizes drawing the fashion figure, fabric rendering and digitally manipulating fabric prints, computerized flat technical drawings, and layout techniques for line presentation utilizing hand rendering techniques and a multimedia computer as a tool.</td>
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<tr>
<td><strong>FD 230</strong></td>
<td><strong>0.5 unit</strong></td>
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<tr>
<td>Fashion Design Laboratory</td>
<td>1.7 hours laboratory</td>
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<tr>
<td>Grading: pass/no pass</td>
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<tr>
<td>Formerly FD 230AD. This course provides the student enrolled in a Fashion Design course an opportunity for additional hours working in the Fashion Design Lab. Lab time is assigned on a space available basis. Students completing 27 hours of lab work during the semester will receive .5 unit of credit.</td>
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<tr>
<td><strong>FD 231</strong></td>
<td><strong>0.5 unit</strong></td>
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<tr>
<td>Fashion Design Lab-Garment Closures</td>
<td>1.7 hours laboratory</td>
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<tr>
<td>Corequisite: FD 38A or FD 38B or FD 38C or FD 38D</td>
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<tr>
<td>Grading: pass/no pass</td>
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<tr>
<td>This course focuses on creating garment closures, facings and linings. Students will have access to specialized equipment in the fashion design lab. Students completing 27 hours of lab work during the semester will receive .5 unit of credit.</td>
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<tr>
<td><strong>FD 244</strong></td>
<td><strong>1.0 unit</strong></td>
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<tr>
<td>Computer Patternmaking</td>
<td>1.1 hours lecture, 1.1 hours laboratory</td>
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<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>Students learn concepts, practices and procedure related to promotion and management of a fashion event. Course work includes planning, budgeting, directing, and evaluating promotional activities such as visual merchandising, publicity, and personal and non-personal selling for a fashion event.</td>
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<tr>
<td><strong>FD 240</strong></td>
<td><strong>2.5 units</strong></td>
</tr>
<tr>
<td>Fashion Show Promotion and Management</td>
<td>2.3 hours lecture, 2.3 hours laboratory</td>
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<tr>
<td>Prerequisite: FD 41</td>
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<tr>
<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>Students learn concepts, practices and procedure related to promotion and management of a fashion event. Course work includes planning, budgeting, directing, and evaluating promotional activities such as visual merchandising, publicity, and personal and non-personal selling for a fashion event.</td>
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<tr>
<td><strong>FD 231</strong></td>
<td><strong>0.5 unit</strong></td>
</tr>
<tr>
<td>Swimwear</td>
<td>0.6 hour lecture, 1.7 hours laboratory</td>
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<tr>
<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>Formerly FD 231AD. This course provides the student an opportunity for additional hours working in the Fashion Design Lab. Lab time is assigned on a space available basis. Students completing 27 hours of lab work during the semester will receive .5 unit of credit.</td>
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### FILM (FILM)

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<tr>
<th>Course Code</th>
<th>Units</th>
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<tbody>
<tr>
<td><strong>FILM 1</strong></td>
<td><strong>3.0 units</strong></td>
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<tr>
<td>Introduction to Film Studies</td>
<td>3.4 hours lecture</td>
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<tr>
<td>Recommended Preparation: ENGL 105 or ESL 34 or qualify for ENGL 1 through the assessment process</td>
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<tr>
<td>Grading: letter grade or pass/no pass</td>
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</table>
| This course serves as an introduction to the evaluation of film as an art form through an analysis and appreciation of its aesthetics, history, literature, creative techniques
and expression of its societies and cultures, together with its influence on twentieth century values. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**FILM 2A** 3.0 units

Film History I

3.4 hours lecture

Recommended Preparation: Film 1

Grading: letter grade or pass/no pass

This course is a study of the trajectory of film history from invention to World War II. The course will focus on significant cinematic movements and styles in both American and international cinema, technological developments and shifts and their effect on the larger industrial complex and Examine the work of several historically significant filmmakers. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**FILM 2B** 3.0 units

Film History II

3.4 hours lecture

Recommended Preparation: FILM 1

Grading: letter grade or pass/no pass

This course is a study of the trajectory of film history from World War II to the present. The course will focus on significant cinematic movements and styles in both American and international cinema, technological developments and shifts and their effect on the larger industrial complex, and the work of several historically significant filmmakers. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**FILM 10** 3.0 units

Film Genres

3.4 hours lecture

Recommended Preparation: FILM 1

Grading: letter grade or pass/no pass

This introductory course surveys the historical development and progression of basic film genres while also exploring their artistic, social, cultural, political and ideological contexts. The emphasis is on such types as the science-fiction film, western, gangster film, crime and detective thriller (film noir), musical, comedy, or horror film. The particular genre for study will change each semester, based upon the instructor’s choice. Genre topics will be listed as a subheading in each semester’s course schedule. Transfer Status: Transferable to CSU Only; see counselor for limitations.

**FILM 11** 3.0 units

Film Directors and Artists

3.4 hours lecture

Recommended Preparation: FILM 1

Grading: letter grade or pass/no pass

This class involves a survey and critical analysis of films by various film directors within the Film Industry. The class will deconstruct a film director’s work (instructor’s choice) throughout the course of the semester, focusing specifically on technical, thematic, ideological, socio-cultural, and political similarities that span the director’s career. Students will be expected to articulate specific insights of director’s work through essay writing and exams. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**FILM 20** 3.0 units

Fundamentals of Digital Film Production

2.3 hours lecture, 4.5 hours laboratory

Prerequisite: FILM 1 (may be taken concurrently)

Grading: letter grade or pass/no pass

This course introduces the basic principles of film production, including operation of equipment and details involved in making a film from idea development to final production. The course encompasses lectures and lab workshops as well as group and individual projects. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**FILM 21** 3.0 units

Intermediate Digital Film Production

2.3 hours lecture, 4.5 hours laboratory

Prerequisite: FILM 20

Recommended Preparation: FILM 40

Grading: letter grade or pass/no pass

This class provides intermediate film production experiences for the transfer film major. It includes editing, directing, scripting and producing, with special emphasis on pre- and post-production considerations. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**FILM 25** 3.0 units

Introduction to Digital Cinematography

2.3 hours lecture, 4.5 hours laboratory

Prerequisite: FILM 20

Grading: letter grade or pass/no pass

This course provides Introduction to the fundamental technical and aesthetic principles of motion picture digital photography. Students are instructed in practical training in the use of motion picture cameras, with an introduction to image control through exposure, lighting, and selection of camera, lenses, and filters. The course also offers an examination of the cinematographer as a visual storyteller to develop a broader understanding of the balance between artist and technician as well as an examination of the different crew positions and processes of the camera crew. Transfer Status: Transferable to CSU Only; see counselor for limitations.

**FILM 35** 4.0 units

Film Production Workshop

2.3 hours lecture, 4.5 hours laboratory

Prerequisite: FILM 1

Grading: letter grade or pass/no pass

Formerly FILM 35AD. This is an intensive course in the complete experience of filmmaking. In a concentrated format, students will create their own films putting to practical application the fundamental techniques in all phases of motion picture production, including the creation of a story idea and script, camera operation, the use of sound, the editorial process, and techniques of picture and sound production. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**FILM 40** 3.0 units

Introduction to Screenwriting

3.4 hours lecture

Recommended Preparation: FILM 1

Grading: letter grade or pass/no pass

This course offers basic techniques of short subject dramatic screenplay structure and storytelling. This includes script development from story concept,
Courses of Instruction

character design, story treatment, plot and character development.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FILM 60 1.0 unit
Special Projects in Film
3.4 hours laboratory
Prerequisite: FILM 21
Grading: letter grade or pass/no pass
Formerly FILM 60AD. This course permits lower division students with generalized background in cinema to explore an in-depth specific aspect of cinema in theory and execution and topics not covered in other courses currently offered.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FIRE SCIENCE (FIRE)

FIRE 1 3.0 units
Fire Protection Organization
3.4 hours lecture
Grading: letter grade
This course will outline the components of fire protection, and career opportunities in the fire protection and suppression fields. It will introduce the philosophy and history of fire protection and analyze the effects of fire losses to the community. The course will address the organization and functions of public and private fire protection services and will address fire departments as part of local governments including the laws and regulations affecting the fire service. This course will introduce students to fire service nomenclature, specific fire protection functions, and the culture of the fire service. This course will introduce students to basic fire chemistry and physics, and fire strategy and tactics.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FIRE 2 3.0 units
Fire Prevention Technology
3.4 hours lecture
Grading: letter grade
This is an introductory class which outlines the history and philosophy of fire prevention, including the organization and operation of a fire prevention bureau utilizing fire prevention codes. This course also identifies fire hazards and the proper method of correction in compliance of each fire hazard. This course allows the students to identify the relationship of fire prevention with fire safety educational codes in accordance with industry standards.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FIRE 3 3.0 units
Fire Protection Equipment and Systems
3.4 hours lecture
Grading: letter grade
This course provides educational information relating to the features and operations of fire detection, protection and alarm systems. This course also addresses the use, inspection and maintenance of portable fire extinguishers.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FIRE 4 3.0 units
Building Construction
3.4 hours lecture
Grading: letter grade
This course will cover the components of building construction methods which are relevant to firefighter safety. The components of building design and methods of construction of structures are known to be key factors when inspecting buildings, preplanning fire operations and operating at fire scenes. The development and evolution of building and fire codes will be analyzed and compared to previous fires which have occurred in residential, commercial and industrial occupied structures.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FIRE 5 3.0 units
Fire Behavior and Combustion
3.4 hours lecture
Grading: letter grade
This course will present the theory and fundamentals of how and why fires start, and the factors which affect the spread of fires. A study of the basic fundamentals of fire chemistry and their physical components will be presented and discussed. In addition, an analysis of fires' characteristics and the effects of extinguishing agents and fire management methods are studied.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FIRE 53 3.0 units
Fire Hydraulics
3.4 hours lecture
Grading: letter grade
This course provides a study of applied math and formula calculations of hydraulics in conjunction with the procedures of the fire service industry, and includes the application of mental hydraulic calculations. The course will introduce students to basic components required when utilizing water supplies methods and procedures.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FIRE 54 3.0 units
Hazardous Materials 1
3.4 hours lecture
Grading: letter grade
This course is a study of basic fire chemistry and physics. A variety of topics will be addressed, including problems of flammability encountered by firefighters during fire suppression activities. Topics that will be examined are the dynamics associated during fire suppression activities involving fuels and chemical oxidizers in conjunction with hazardous materials during storage and transport.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

FIRE 57 3.0 units
Introduction to Fire Tactics & Strategy
3.4 hours lecture
Grading: letter grade
This is an introductory course which outlines the principles of fire ground control through the utilization of personnel, equipment and extinguishing agents on the fire ground or emergency incident. This course is the backbone of the Incident Command System, along with the theory of the Rapid Intervention Crew and...
Standardized Emergency Management System. These topics will be presented as theories and principles with emphasis on practical and appropriateness of key academic strategies. This course provides group interactions and individualized instruction to develop a support system and a mentor experience with the instructor.

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**FIRE 58 3.0 units**  
Intro to Fire Company Administration  
3.4 hours lecture  
Grading: letter grade  
This is an introductory level class which outlines a review of fire department organization and administration. Students will identify planning, organizing and supervising within the Fire department occupation, with an emphasis on the first line company officer’s role, as a Fire Captain.  
**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**FIRE 61 3.0 units**  
Rescue Practices  
3.4 hours lecture  
Grading: letter grade  
This course is a study of rescue problems and techniques, including the use of rescue equipment, care of childbirth victims and newborns, the effects of toxic gases and chemicals, radiation hazards, respiration and resuscitation, and extrication.  
**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**FIRE 62 3.0 units**  
Fire Apparatus and Equipment  
3.4 hours lecture  
Grading: letter grade  
This course focuses on a study of mobile and fixed fire apparatus and equipment, with a review of their perspective construction specifications and performance capabilities. The course outlines the effective deployment, utilization and performance of Fire apparatus and equipment under emergency conditions, when used for firefighting purposes.  
**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**FIRE 64 3.0 units**  
Hazardous Materials 2  
3.4 hours lecture  
Grading: letter grade  
This course is a continuing study of hazardous materials addressing the identification of explosives, toxic substances and radioactive materials in storage and in transit.  
**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**FIRE 65 3.0 units**  
Fundamentals of Fire Safety  
3.4 hours lecture  
Grading: letter grade  
This course will be appropriate for students who wish to pursue a career in a paid or volunteer fire department. A variety of topics will be addressed, including information on current techniques and prevention of injuries while promoting safe routine and emergency fire operations.  
**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**FIRE 203 1.0 unit**  
Fire Tools, Equipment & Related Tech  
1.1 hours lecture, 1.1 hours laboratory  
Grading: pass/no pass  
This course is a hands-on tool class to assist fire science students in recognizing and using the hand and power tools used in the fire fighter occupation. The course emphasis is on safety procedures and efficient use of tools and equipment.

**FIRE 240 0.5 unit**  
Firefighter I Physical Agility  
0.2 hour lecture, 1.0 hour laboratory  
Grading: letter grade or pass/no pass  
This course is designed to assess physical agility requirements for the fire service. It includes a review of nutritional facts and physical training principles. The course meets the statewide standards of the CalChiefs organization.

**FIRE 298A 1.0 unit**  
EXP Fire Tools, Equipment and Related Tech  
0.8 hour lecture, 1.3 hours laboratory  
Grading: letter grade or pass/no pass  
This course is a hands-on tool class to assist fire science students in recognizing and using the hand and power tools used in the fire fighter occupation. The course emphasis is on safety procedures and efficient use of tools and equipment.

**FLORAL DESIGN (FLO)**

**FLO 286A 2.0 units**  
Introduction to Floral Design: Fall Flowers  
1.7 hours lecture, 1.7 hours laboratory  
Grading: letter grade or pass/no pass  
This course covers the elements and principles of design, color coordination, basic floral arranging and basic corsage construction. Nomenclature of flowers and foliage and their uses are included. FLO 286A covers fall flowers; FLO 286B covers spring flowers.

**FLO 286B 2.0 units**  
Introduction to Floral Design: Spring Flowers  
1.7 hours lecture, 1.7 hours laboratory  
Grading: letter grade or pass/no pass  
This course covers the elements and principles of design, color coordination, basic floral arranging and basic corsage construction. Nomenclature of flowers and foliage and their uses are included. FLO 286A covers fall flowers; FLO 286B covers spring flowers.

**FLO 287A 2.0 units**  
Intermediate Floral Design-Wedding  
1.7 hours lecture, 1.7 hours laboratory  
Recommended Preparation: One semester of FLO 286A or FLO 286B  
Grading: letter grade or pass/no pass  
This is one of three courses that constitute a comprehensive overview of techniques used at an intermediate level within the floral industry. This
Courses of Instruction

hands-on, step-by-step course covers each phase of wedding flowers: design, mechanics and construction of floral products, marketing and selling flowers for church, hotel and home/garden wedding and reception setup.

FLO 287B 2.0 units
Intermediate Floral Design-Sympathy
1.7 hours lecture, 1.7 hours laboratory
Recommended Preparation: One semester of FLO 286A or FLO 286B
Grading: letter grade
This is one of three courses which constitute a comprehensive overview of techniques used at an intermediate level within the floral industry. Complete instructions on the art and science of designing sympathy flowers are included, from the elaborate casket to simple home tributes. The course focuses on mechanics and construction for efficiency in design.

FLO 287C 2.0 units
Intermediate Floral Design-Banquet Holiday
1.7 hours lecture, 1.7 hours laboratory
Recommended Preparation: One semester of FLO 286A or FLO 286B.
Grading: letter grade or pass/no pass
This is one of three courses that constitute a comprehensive overview of techniques used at an intermediate level within the floral industry. This course covers skills needed to successfully produce holiday designs and mass production. It also includes indoor, outdoor and poolside events, banquets, parties or related party work.

FLO 288 2.0 units
Advanced Floral Design
1.7 hours lecture, 1.7 hours laboratory
Recommended Preparation: FLO 286A-B and FLO 287A-B-C
Grading: letter grade or pass/no pass
This course provides students with the techniques for the planning, design and execution of intricate and creative art floral arrangements. Topics include terminology, application and methods for creating designs in less time for profit. This course is required for students in the Floral Design Certificate Program.

FLO 289 3.0 units
Applied Floral Shop Operation
3.4 hours lecture
Grading: letter grade or pass/no pass
This course presents techniques for starting a retail or home-based floral business. Topics range from licensing procedures to shop layout and day-to-day operations, including the handling of perishable floral materials. Policies, pricing, personnel and selling techniques are examined. This course is required for Floral Design Majors.

FLO 290 0.5 unit
Floral Creativity and Competition
0.6 hour lecture, 1.1 hours laboratory
Recommended Preparation: Intermediate floral design skills.
Grading: letter grade or pass/no pass
Individualized, non-standard, contemporary flower arrangements will be created emphasizing the use of the student’s own imagination and creative talent. This course will broaden the student’s design experience, expand and develop beyond the student’s present personal creativity potential. The course will enhance the student skills required for competitive floral design, including emphasis in design speed. A field trip to the California State Floral Association Top Ten Competition is offered for competing or observing.

FOOD AND NUTRITION (F_N)

F_N 20 3.0 units
Nutrition and Life
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is an introduction to the basic physiological, psychological, social and biochemical principles related to human nutrition.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

F_N 21 4.0 units
Food Selection and Meal Preparation
3.4 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
This course introduces the knowledge and skills related to food selection and preparation, food product standards and factors contributing to the quality of prepared food.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

F_N 26 1.0 unit
Nutrition for the Active Person
1.1 hours lecture
Grading: letter grade or pass/no pass
This course is designed to assist the athlete and those who are physically active in examining his or her special nutritional needs based upon current research. Topics that are emphasized in the course include the nutritional needs of the athlete versus the non-athlete, improving athletic performance through nutrition and how to evaluate athletic diets such as high protein diets, carbohydrate loading and pre-game meals.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

F_N 224 3.0 units
Sanitation, Safety and Equipment
3.4 hours lecture
Grading: letter grade or pass/no pass
This course covers the application of basic safety and sanitation principles for a food service operation, the criteria used to evaluate equipment design and how to write equipment specifications.

F_N 225 3.0 units
Intro to Food Service/Work Organizations
3.4 hours lecture
Grading: letter grade or pass/no pass
This course covers the scope, organization, management and administration of a food service system operating within a health care, community or school feeding program. Topics include facility layout and design, motion economy, task analysis and method improvement, and the education and experience necessary for employment.
**Courses of Instruction**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>F_N 227</td>
<td>3.0</td>
<td>Supervision and Training Techniques</td>
</tr>
<tr>
<td>3.4 hours lecture</td>
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<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>This course trains students for supervisory positions in food service operations related to health care facilities. Emphasis will include staff selection, training, presentation techniques, communication and staff development.</td>
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<tr>
<td>F_N 228</td>
<td>3.0</td>
<td>Food Production Management</td>
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<tr>
<td>3.4 hours lecture, 0.2 hour supplemental learning</td>
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<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>This course introduces management techniques related to food service operations. Menu planning, production scheduling, equipment utilization, staffing and service systems are presented in this course. Students are required to complete 3 hours throughout the course of the semester in a Multidisciplinary Success Center to complete activities and assignments that relate specifically to this course’s content.</td>
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<tr>
<td>F_N 230AC</td>
<td>2.0</td>
<td>Clinical Field Experience I</td>
</tr>
<tr>
<td>1.1 hours lecture, 5.6 hours laboratory</td>
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<td>Grading: pass/no pass</td>
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<tr>
<td>This course provides supervised clinical field experience in health care facilities for dietetic service supervisor and nutrition assistant program students. Students learn and practice the skills necessary to coordinate a health care food service facility.</td>
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<tr>
<td>F_N 231</td>
<td>3.0</td>
<td>Menu Planning and Food Purchasing</td>
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<tr>
<td>3.4 hours lecture</td>
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<td>Grading: letter grade</td>
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<tr>
<td>This course covers the planning and design of health care institutional menus. Topics include: nutritional adequacy, psychological needs, types of operation, equipment and skill of personnel. Purchasing and costing of food, analysis of food quality, writing specifications, ordering, receiving and storing of food and supplies are also covered.</td>
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<tr>
<td>F_N 232</td>
<td>3.0</td>
<td>Therapeutic Diets</td>
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<tr>
<td>3.4 hours lecture</td>
<td></td>
<td>Grading: letter grade</td>
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<tr>
<td>Recommended Preparation: F_N 20 (may be taken concurrently)</td>
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<tr>
<td>This course presents the principles of an indication for therapeutic diets in the treatment of diseases and disorders. Course content applies to dietetics programs in hospitals, convalescent and extended care facilities.</td>
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<tr>
<td>F_N 233</td>
<td>1.0</td>
<td>Special Topics-Health Care Dietetics</td>
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<tr>
<td>1.1 hours lecture</td>
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<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>This course covers a variety of topics of interest to professionals in the field of health care dietetics/food and nutrition as well as nutrition/dietetics students. The latest developments and trends in the field will be addressed, such as medical nutrition therapies, nutrition care, and new products and resources. Course subject matter varies by semester; see the schedule of classes. This course may be repeated for credit as topics change.</td>
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<tr>
<td>F_N 234</td>
<td>3.0</td>
<td>Advanced Nutrition Care</td>
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<tr>
<td>3.4 hours lecture</td>
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<td>Grading: letter grade</td>
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<tr>
<td>Prerequisite: F_N 232</td>
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<tr>
<td>This course presents nutrition education principles and techniques for the individual, family and small groups in normal, modified and preventive nutrition care throughout the lifecycle. Computer applications and cultural implications will be covered in this course.</td>
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<tr>
<td>F_N 235</td>
<td>3.0</td>
<td>Advanced Medical Nutrition Therapy</td>
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<tr>
<td>3.4 hours lecture</td>
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<td>Grading: letter grade</td>
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<tr>
<td>Recommended Preparation: F_N 232</td>
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<tr>
<td>This course presents an advanced study of medical nutrition therapy with applications in diet counseling, menu modification, communication, documentation, education and appropriate food service delivery.</td>
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<tr>
<td>F_N 236</td>
<td>1.0</td>
<td>Dietetic Seminar</td>
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<tr>
<td>1.1 hours lecture</td>
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<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>This course serves as an introduction to the development of professionalism and a team concept in the dietetic health care system. The course examines financing, planning and regulating health care services related to dietetics, as well as the standards of professional responsibility and the code of ethics for the profession of dietetics.</td>
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<tr>
<td>F_N 240AC</td>
<td>2.0</td>
<td>Clinical Field Experience II</td>
</tr>
<tr>
<td>11.3 hours laboratory</td>
<td></td>
<td>Grading: pass/no pass</td>
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<tr>
<td>Recommended Preparation: Two semesters of F_N 230AC</td>
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<tr>
<td>This course provides supervised clinical experience in health care facilities for students in the Nutrition Assistant Program. Students will learn and practice skills necessary to provide nutritional care services to clients in health care settings.</td>
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<tr>
<td>F_N 250</td>
<td>2.0</td>
<td>Nutrition for Culinary Arts</td>
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<tr>
<td>2.3 hours lecture</td>
<td></td>
<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>Recommended Preparation: F_N 240AC</td>
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<tr>
<td>This course provides a practical approach to the application of sound nutritional practices in the food service setting. Culinary arts students and professionals will be able to incorporate healthful nutritional knowledge in their personal and professional lives. This course includes nutrition as it relates to health throughout the life cycle, menu/recipe design and modification, food product selection, and current trends in consumer preference.</td>
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<tr>
<td>F_N 252A</td>
<td>1.5</td>
<td>Cake Decorating Techniques</td>
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<tr>
<td>1.1 hours lecture, 2.3 hours laboratory</td>
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<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>Formerly F_N 252AD. Topics in this course include cake decorating techniques, recipes, tools and skill development. A variety of icings, designs, and shaping techniques will be covered. This course is an elective for the Dietetic’s program certificates.</td>
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</tbody>
</table>
Courses of Instruction

F_N 252B  1.5 units
Cake Decorating for Special Occasions
1.1 hours lecture, 2.3 hours laboratory
Grading: letter grade
Topics in this course cover cake decorating techniques for special occasions. Included will be creating cakes with special effects, candy molds, novelties, international styles, delivery, set up techniques and business practices.

F_N 253  1.0 unit
Food Handler Certification
1.1 hours lecture
Grading: letter grade or pass/no pass
This course will address the required standards of sanitation and safety in the handling, preparation and serving of food to protect the public’s health. Students will receive a Food Handler Certificate after passing the food handler exam given at the conclusion of the course. This Certificate required for those working in a food service establishments and meets the California State Health Code.

F_N 255C  1.0 unit
Nutrition for Adults and Aging
1.1 hours lecture
Grading: letter grade or pass/no pass
This course provides the most recent information in the specific area of nutrition. Facts and fallacies and life cycle nutrition focusing on seniors are emphasized.

F_N 255D  1.0 unit
Vegetarian Lifestyle
1.1 hours lecture
Grading: letter grade or pass/no pass
This course provides the knowledge to plan and practice a vegetarian lifestyle and maintain optimum nutrition. Topics will include the benefits and cautions of the vegetarian diet, variations of the diet and how to combine non-meat proteins.

F_N 256  2.0 units
Weight Control & Energy Balance
2.3 hours lecture
Grading: letter grade or pass/no pass
This course presents techniques of long term weight control. The following areas are addressed in this course: assessment of ideal body weight, techniques of diet/behavior modification, emotional eating triggers, and principles of energy balance through the modification of diet.

F_N 260  1.0 unit
Cultural Foods
1.1 hours lecture, 1.1 hours laboratory
Grading: letter grade or pass/no pass
Formerly F_N 260AD. This course explores the origins of foods, customs, nutrition and preparation methods common to a variety of cultures. Food patterns and relationship to social customs and rituals are covered in addition to the nutrition assessment and the effects of changes of food habits. This course is an elective for the Dietetic’s program certificates.

F_N 261  1.0 unit
Cooking for Wellness
1.1 hours lecture, 1.1 hours laboratory
Grading: letter grade or pass/no pass
Formerly F_N 261AD. This course provides the knowledge and skills required to plan, prepare and serve nutritious, varied, palatable, attractive meals within the limitations of time, energy, equipment and budget.

F_N 262  1.0 unit
Cooking for Singles
1.1 hours lecture, 1.1 hours laboratory
Grading: letter grade or pass/no pass
Formerly F_N 262AD. This course is designed to teach meal planning and food preparation for the single person. This course will emphasize the preparation of nutritious, convenient, economical and attractive meals.

FOREIGN LANGUAGE, CHINESE (CHIN)

CHIN 1  5.0 units
Elementary Chinese 1
5.6 hours lecture, 1.1 hours laboratory
Grading: letter grade or pass/no pass
This course introduces students to the standard Chinese language (Mandarin). Students will study grammar, vocabulary, pronunciation, and culture. They will develop elementary competency in listening, speaking, reading and writing. The course will present everyday situations and topics in the context of Chinese cultural traditions. It is not recommended for native speakers.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

CHIN 2  5.0 units
Elementary Chinese 2
5.6 hours lecture, 1.1 hours laboratory
Prerequisite: CHIN 1
Grading: letter grade or pass/no pass
This course is the second of two beginning courses on the fundamentals of modern standard Chinese (Mandarin). It is designed to further develop students’ competency in speaking, listening, reading, and writing. Topics will be placed in the contemporary context in the Chinese world.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

FOREIGN LANGUAGE, FRENCH (FREN)

FREN 1  5.0 units
Elementary French
5.6 hours lecture, 1.1 hours laboratory
Grading: letter grade or pass/no pass
This course provides an introduction to French vocabulary and grammar structures, emphasizing listening, speaking, reading, and writing. This course is not recommended for native speakers of French.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
</table>
| FREN 1C  | 5.0   | French 1 for Spanish Speakers  
5.6 hours lecture, 1.1 hours laboratory  
Grading: letter grade or pass/no pass  
This course provides an introduction to French vocabulary and grammar structures, emphasizing listening, speaking, reading, and writing and underlying structural similarities between French and Spanish. This course is not recommended for native speakers of French or for students who have recently completed one year of high school French with a grade of B or better.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.* |
| FREN 2   | 5.0   | Elementary French  
5.6 hours lecture, 1.1 hours laboratory  
Prerequisite: FREN 1C  
Grading: letter grade or pass/no pass  
This course is a continuation of the study of basic French vocabulary and grammar forms emphasizing listening and speaking, reading and writing, based on modern topical material.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.* |
| FREN 2C  | 5.0   | French 2 for Spanish Speakers  
5.6 hours lecture, 1.1 hours laboratory  
Prerequisite: FREN 1C  
Grading: letter grade or pass/no pass  
This course is a continuation of the study of basic French vocabulary and grammar forms emphasizing listening and speaking, reading and writing and underlying structural similarities between French and Spanish that facilitate French language-acquisition, based on modern topical material.  
*Transfer Status: Transferable to CSU Only; see counselor for limitations.* |
| FREN 3   | 5.0   | Intermediate French  
5.6 hours lecture  
Prerequisite: FREN 2  
Grading: letter grade or pass/no pass  
This course consists of French grammar presentation and review. Students will also study vocabulary and idiomatic expressions based on situational dialogues, articles, and readings which reflect various French-speaking cultures. There is continued listening and speaking practice, as well as development of reading and writing skills.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.* |
| FREN 4   | 5.0   | Intermediate French  
5.6 hours lecture  
Prerequisite: FREN 3 or recent completion of three years High School French.  
Grading: letter grade or pass/no pass  
This course consists of a continuation of French grammar presentation and review, emphasizing more advanced structures. Students will also read, analyze and evaluate short stories and literary selections by famous Francophone authors. There will be extensive practice in spoken and written communication.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.* |
| FREN 25A | 3.0   | Advanced French: Culture in Literature  
3.4 hours lecture  
Prerequisite: FREN 4  
Grading: letter grade or pass/no pass  
Students explore Francophone culture via articles, essays, realia, short stories, fables, biographies, etc. The course includes grammar review stressing oral and written composition, as well as acquisition of topic-related vocabulary, to improve fluency in the target language. Outside reading and reporting in the field of study are required.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.* |
| GER 1    | 5.0   | Elementary German  
5.6 hours lecture, 1.1 hours laboratory  
Grading: letter grade or pass/no pass  
This course is an introduction to the German language and emphasizes the four skills necessary for language acquisition: listening, speaking, reading and writing. Students will learn the sound system and elementary grammatical structures to be able to communicate at a basic level. This course exposes students to everyday situations and cultural topics of the German speaking world. It is not recommended for native speakers.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.* |
| GER 2    | 5.0   | Elementary German  
5.6 hours lecture, 1.1 hours laboratory  
Prerequisite: GER 1  
Grading: letter grade or pass/no pass  
This course is a continuation of the study of basic grammar forms. Emphasis is placed on vocabulary expansion for meaningful communication. The four language learning skills, listening, reading, speaking and writing, are practiced and evaluated on a regular basis.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.* |
| ITAL 1   | 5.0   | Elementary Italian  
5.6 hours lecture, 1.1 hours laboratory  
Grading: letter grade or pass/no pass  
This course introduces the students to the four skills necessary for language acquisition: listening, speaking, reading and writing. Students will learn the sound system and basic grammatical structures. This course exposes students to everyday situations and cultural topics of the Italian culture. It is not recommended for native speakers of Italian.  
*Transfer Status: Transferable to UC, CSU; see counselor for limitations.* |
Courses of Instruction

ITAL 1C 5.0 units
Elementary Italian for Spanish Speakers
5.6 hours lecture, 1.1 hours laboratory
Grading: letter grade or pass/no pass
This course provides an introduction to Italian vocabulary and grammar structures, emphasizing listening, speaking, reading, and writing and underlying structural similarities between Italian and Spanish. This course is not recommended for native speakers of Italian or for students who have recently completed one year of high school Italian with a grade of B or better.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ITAL 2 5.0 units
Elementary Italian
5.6 hours lecture, 1.1 hours laboratory
Prerequisite: ITAL 1
Grading: letter grade or pass/no pass
This course is a continuation of the study of basic Italian vocabulary and grammar forms, emphasizing listening and speaking, reading and writing, based on modern topical material.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

ITAL 2C 5.0 units
Elementary Italian for Spanish Speakers
5.6 hours lecture, 1.1 hours laboratory
Prerequisite: ITAL 1C
Grading: letter grade or pass/no pass
This course is a continuation of the study of basic Italian vocabulary and grammar forms emphasizing listening and speaking, reading and writing, and underscoring structural similarities between Italian and Spanish that facilitate Italian-language acquisition, based on modern topical material.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ITAL 4 5.0 units
Intermediate Italian
5.6 hours lecture
Prerequisite: ITAL 3
Grading: letter grade or pass/no pass
This course continues the review of Italian grammar, emphasizing more advanced structures. Topics include comparison of verb tenses, expansion of vocabulary, development of reading and speaking ability and improvement of writing skills through the writing process.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FOREIGN LANGUAGE, JAPANESE (JAPAN)

JAPAN 1 5.0 units
Elementary Japanese
5.6 hours lecture, 1.1 hours laboratory
Grading: letter grade or pass/no pass
This course introduces the students to the four skills necessary for language acquisition: listening, speaking, reading and writing (hiragana and katakana systems). Students will learn the sound system and basic grammatical structures. It presents everyday situations and topics of the Japanese culture. It is not recommended for native speakers of Japanese.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

JAPAN 2 5.0 units
Elementary Japanese
5.6 hours lecture, 1.1 hours laboratory
Prerequisite: JAPAN 1
Grading: letter grade or pass/no pass
This course is the second of two beginning courses on the fundamentals of modern Japanese. Students will acquire further competency in the four skills necessary for language acquisition: listening, speaking, reading and writing. This course continues to teach the kanji writing system. It is not recommended for native speakers of Japanese.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

JAPAN 3 5.0 units
Intermediate Japanese
5.6 hours lecture
Prerequisite: JAPAN 2
Grading: letter grade or pass/no pass
This course is an intermediate course on the fundamentals of Japanese. Students will acquire further competency in the four skills necessary for language acquisition: listening, speaking, reading and writing. Topics will be placed in the contemporary context in the Japanese world. This course is not recommended for native speakers of Japanese.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

JAPAN 4 5.0 units
Intermediate Japanese
5.6 hours lecture
Prerequisite: JAPAN 3
Grading: letter grade or pass/no pass
This course is the second semester of intermediate Japanese. It continues the review of Japanese grammar, emphasizing more advanced structures, and introducing additional kanji characters. Topics include expansion of vocabulary, development of reading and speaking ability and improvement of writing skills through the writing process.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

FOREIGN LANGUAGE, KHMER (KHMER)

KHMER 9 5.0 units
Khmer for Heritage Speakers
5.6 hours lecture
Recommended Preparation: Heritage Learner with at least low-intermediate speaking/listening ability determined through oral interview with instructor
Grading: letter grade or pass/no pass
This course is the first semester of intermediate Khmer for native speakers of the language. It develops reading and writing skills of Heritage Khmer speakers as well as increasing their oral proficiency. Students explore Khmer colloquial usage and common spellings to gain an understanding of how to use Khmer characters in word formation. This course includes extensive analysis
of the Khmer writing system, conventions in spelling, and key vocabulary.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**KHMER 10**  
5.0 units  
Khmer for Heritage Speakers  
5.6 hours lecture  
Grading: letter grade or pass/no pass  
This course is the second semester of intermediate Khmer for native speakers of the language. It continues to develop reading and writing skills of native Khmer speakers and increases oral proficiency. Students explore Khmer history and culture in Pre-Angkorian, Angkorian, and Post-Angkorian periods. This course also includes extensive analysis of the Khmer writing system, conventions in spelling, and key vocabulary.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**FOREIGN LANGUAGE, SPANISH (SPAN)**

**SPAN 1**  
5.0 units  
Elementary Spanish  
5.6 hours lecture, 1.1 hours laboratory  
Grading: letter grade or pass/no pass  
This is the first course in Spanish. It introduces students to the four skills necessary for language acquisition: listening, speaking, reading and writing. It is not recommended for native speakers of Spanish or for students who have completed one year of high school Spanish with a grade of B or better. Students will learn the sound system and basic grammatical structures. This course exposes students to everyday situations and cultural topics of the Hispanic world. It is not recommended for native speakers of Spanish.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**SPAN 2**  
5.0 units  
Elementary Spanish  
5.6 hours lecture, 1.1 hours laboratory  
Prerequisite: SPAN 1  
Grading: letter grade or pass/no pass  
This course is a continuation of the study of basic Spanish vocabulary and grammar forms, emphasizing listening and speaking, reading and writing, based on modern topical material.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**SPAN 3**  
5.0 units  
Intermediate Spanish  
5.6 hours lecture  
Prerequisite: SPAN 2  
Grading: letter grade or pass/no pass  
This course is an intermediate course on the fundamentals of Spanish. Students will acquire further competency in the four skills necessary for language acquisition: listening, speaking, reading and writing. Topics will be placed in the contemporary context in the Spanish-speaking world.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**SPAN 4**  
5.0 units  
Intermediate Spanish  
5.6 hours lecture  
Prerequisite: SPAN 3  
Grading: letter grade or pass/no pass  
This course continues the review of Spanish grammar, emphasizing more advanced structures. Topics include comparison of verb tenses, expansion of vocabulary, development of reading and speaking ability and improvement of writing skills through the writing process.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**SPAN 8**  
3.0 units  
Spoken Spanish  
3.4 hours lecture  
Prerequisite: SPAN 2  
Grading: letter grade or pass/no pass  
This course is designed to improve comprehension, structure, oral expression and fluency in Spanish used in travel, in the home, in school and in business. This course emphasizes vocabulary, idioms and language patterns fundamental to an active use of Spanish. This course is not recommended for native speakers of Spanish.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**SPAN 9**  
5.0 units  
Spanish for Spanish Speakers  
5.6 hours lecture  
Recommended Preparation: Fluency in spoken Spanish.  
Grading: letter grade or pass/no pass  
This course is the first semester of intermediate Spanish. It develops reading and writing skills of native Spanish speakers as well as perfects their oral skills. Students explore the intellectual and cultural connections and variations of the Hispanic culture in Latin America, the U.S. and Spain. This course also includes extensive review of Spanish grammar, and spelling and writing conventions.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**SPAN 9H**  
5.0 units  
Honors Spanish for Spanish Speakers  
5.6 hours lecture  
Prerequisite: Qualification for the Honors Program  
Grading: letter grade or pass/no pass  
This course is the first semester of intermediate Spanish. It develops reading and writing skills of native Spanish speakers as well as perfects their oral, writing, and reading skills. Students explore the intellectual and cultural connections and variations of the Hispanic culture in Latin America, the U.S. and Spain. This course also includes extensive review of Spanish grammar, and spelling and writing conventions.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**SPAN 10**  
5.0 units  
Spanish for Spanish Speakers  
5.6 hours lecture  
Recommended Preparation: SPAN 9 or fluency in spoken Spanish.  
Grading: letter grade or pass/no pass  
This course is the second semester of intermediate Spanish. It continues developing reading and writing skills of native Spanish speakers. It also includes an extensive grammar review. The Hispanic cultural and
reading materials support the development and understanding of writing styles and techniques, enabling the Spanish speaker to apply them to creative writing and to use argument and debating skills in novel situations. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

SPAN 10H 5.0 units
Honors Spanish for Spanish Speakers
5.6 hours lecture
Prerequisite: Qualification for the Honors Program
Grading: letter grade or pass/no pass
This course is the second semester of intermediate Spanish. It continues developing reading, writing and oral skills of native Spanish speakers. It also includes an extensive grammar review. The Hispanic cultural and reading materials support the development and understanding of writing styles and techniques, enabling the Spanish speaker to apply them to creative writing and to use argument and debating skills in novel situations. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

SPAN 25A 3.0 units
Advanced Spanish: Culture in Literature
3.4 hours lecture
Prerequisite: SPAN 4 or 10
Grading: letter grade or pass/no pass
This course is a survey course that explores the relationship between culture and literature. The course will look at literary works of Latino authors from Latin America, Spain and the U.S. and will study the social-historical evolution of cultural norms as portrayed in literature. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

SPAN 25B 3.0 units
Advanced Spanish: History
3.4 hours lecture
Prerequisite: SPAN 4 or 10
Grading: letter grade or pass/no pass
This course is a survey course that explores the historical and cultural evolution of the Spanish-speaking world, beginning with the origins of Spain to contemporary Spain, Latin America and the Hispanic communities in the U.S. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

SPAN 25C 3.0 units
Advanced Spanish: Politics, Current Event
3.4 hours lecture
Prerequisite: SPAN 4 or 10
Grading: letter grade or pass/no pass
This course is a course that focuses on the current events of the Spanish-speaking world. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

SPAN 25D 3.0 units
Advanced Spanish: Literature
3.4 hours lecture
Prerequisite: SPAN 4 or 10
Grading: letter grade or pass/no pass
This course is a literature survey course that studies major literary works from Spain and Latin America. The course will cover basic concepts of literary theory and literary criticism in Spanish. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

FOREIGN LANGUAGE, VIETNAMESE (VIET)

VIET 1 5.0 units
Elementary Vietnamese
5.6 hours lecture, 1.1 hours laboratory
Grading: letter grade or pass/no pass
This is the first course in Vietnamese. It introduces students to the four basic skills necessary for language acquisition: listening, speaking, reading and writing. Students will learn the sound system, appropriate vocabulary and basic grammatical structures. In addition, this course exposes students to everyday situations and cultural topics of the Vietnamese speaking world. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

VIET 2 5.0 units
Elementary Vietnamese
5.6 hours lecture, 1.1 hours laboratory
Prerequisite: VIET 1 or VIET 1A and VIET 1B.
Grading: letter grade or pass/no pass
This course is a continuation of the study of Vietnamese vocabulary and grammar forms, emphasizing listening and speaking, reading and writing based on modern topical material. Transfer Status: Transferable to CU Only; see counselor for limitations.

FORKLIFT (FORK)

FORK 801 1.0 unit
Forklift Safety and Operation
0.9 hour lecture, 0.7 hour laboratory
Grading: pass/no pass
This course will cover the of safety and operation of the forklift, including basic lifting principles, load rating, stability and operation techniques.

GEOGRAPHY (GEOG)

GEOG 2 3.0 units
Elements of Cultural Geography
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is a study of diverse human populations, their cultural origins, diffusion and contemporary spatial expressions. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

GEOG 5 3.0 units
The Global Economy
3.4 hours lecture
Grading: letter grade or pass/no pass
This course examines the location and organization of international economic activities from an economic, cultural, political, and environmental perspective. Topics covered by a faculty team drawn from economics and geography include the spatial distribution of resources and production, global flows of information, capital and labor, and regional inequalities such as
GEOGRAPHY, PHYSICAL (PGEOG)

PGEOG 1 3.0 units
Physical Geography
3.4 hours lecture
Grading: letter grade or pass/no pass
This is an introductory physical science course, which will emphasize an understanding of the salient scientific principles underlying the spatial distribution of phenomena that exist in the Earth’s hydrosphere, biosphere, atmosphere, and lithosphere and the role humans play within these systems. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PGEOG 1L 1.5 units
Physical Geography Lab
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: PGEOG 1
Corequisite: PGEOG 1
Grading: letter grade or pass/no pass
Physical Geography Laboratory emphasizes the practical application of concepts presented in Physical Geography Lecture, including the distribution and relationships of environmental elements in Earth’s atmosphere, lithosphere, hydrosphere, and biosphere, including weather, climate, water resources, landforms, soils, natural vegetation and wildlife. Focus is on systems and cycles of the natural world including the roles and interactions of humans with Earth’s environment. Physical Geography Lab introduces the student to the tools and methods used in Geography and may offer field study opportunities. This class is designed for Geography majors. Transfer Status: Transferable to CU, CSU; see counselor for limitations.

PGEOG 2 3.0 units
Weather and Climate
3.4 hours lecture
Grading: letter grade or pass/no pass
This is an introductory science course developed by the American Meteorological Society with support from the National Science Foundation. This course examines the physical properties of the atmosphere, radiation heating and cooling, precipitation, clouds, weather disturbances, climate controls, and climate change. There is an emphasis on the analysis and forecasting of weather using real-time data from satellites, weather charts/maps, and other remote sensing platforms. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

GEOLOGY (GEOL)

GEOL 1 4.5 units
General Physical Geology
3.9 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
This is a class that covers the materials and structure of the Earth and the physical processes by which it has been and is being changed. It is a general physical science course for liberal arts students and a beginning course for geology majors. Included with the class is a required one-day, Saturday or Sunday, field trip to acquaint students with the local geology. Transfer Status: Transferable to UC, CSU; see counselor for limitations.
### Courses of Instruction

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Name</th>
<th>Hours, Prerequisites, Notes</th>
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<tbody>
<tr>
<td>GEOL 1H</td>
<td>4.5</td>
<td>Honors General Physical Geology</td>
<td>3.9 hours lecture, 3.4 hours laboratory; Prerequisite: Qualification for the Honors Program; Grading: letter grade or pass/no pass; Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>GEOL 2</td>
<td>3.0</td>
<td>General Geology, Physical</td>
<td>3.4 hours lecture; Grading: letter grade or pass/no pass; This is a class that covers the materials and structure of the Earth and the physical processes by which it has been and is changing. It is a general physical science course for liberal arts students and a beginning course for geology majors; Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>GEOL 2F</td>
<td>1.0</td>
<td>Geology Field Trips</td>
<td>1.5 hours lecture; Corequisite: GEOL 1 or 2; Grading: letter grade or pass/no pass; This is a field trip class offering three single-day field trips, including the San Andreas Fault, Palos Verdes Hills and the Santa Ana Mountains-Dana Point. The purpose of these trips is to acquaint students with the local geology and associated environmental problems. This class does not fulfill the requirement for a laboratory science; Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>GEOL 2L</td>
<td>1.5</td>
<td>General Geology, Physical Geology Lab</td>
<td>1.1 hours lecture, 2.3 hours laboratory; Prerequisite: GEOL 2 (may be taken concurrently); Grading: letter grade or pass/no pass; This class provides laboratory exercises in identification of rocks and minerals, an introduction to geologic time and dating techniques, reading and interpretation of topographic maps and aerial photographs, study of geologic structures, faults and geomorphology; Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>GEOL 3</td>
<td>4.5</td>
<td>Historical Geology</td>
<td>4.5 hours lecture, 2.8 hours laboratory; Grading: letter grade or pass/no pass; This course is a study of earth history through an analysis of the fossil and rock record. Particular emphasis is placed on the paleogeographic reconstruction of Earth beginning in the Precambrian and ending with current conditions. This is a general course for liberal arts students and a beginning course for geology majors; Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>GEOL 3H</td>
<td>4.5</td>
<td>Honors Historical Geology</td>
<td>4.5 hours lecture, 2.8 hours laboratory; Prerequisite: Qualification for the Honors Program; Grading: letter grade or pass/no pass; This course is a study of earth history through an analysis of the fossil and rock record. Particular emphasis is placed on the paleogeographic reconstruction of Earth beginning in the Precambrian and ending with current conditions. This is a general course for liberal arts students and a beginning course for geology majors; Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>GEOL 4</td>
<td>2.0</td>
<td>Field Geology</td>
<td>1.7 hours lecture, 1.7 hours laboratory; Prerequisite: GEOL 1, 2, 2L, 3, 3H or 5 (may be taken concurrently); Grading: letter grade or pass/no pass; This is a field course to selected locations in the Owens Valley and Death Valley. This course is an excellent opportunity to travel through California and experience many different examples of geology firsthand; Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>GEOL 5</td>
<td>3.0</td>
<td>Environmental Geology</td>
<td>3.4 hours lecture; Grading: letter grade or pass/no pass; This is a field course to selected locations in the Owens Valley and Death Valley. This course is an excellent opportunity to travel through California and experience many different examples of geology firsthand; Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>GEOL 7</td>
<td>2.0</td>
<td>Field Studies: Western Environments</td>
<td>1.7 hours lecture, 1.7 hours laboratory; Recommended Preparation: GEOL 1, 2, 3 or 18 or concurrent enrollment; Grading: letter grade or pass/no pass; Formerly GEOL 7AD. This course is a field studies course to geologically interesting areas of the west. The emphasis of the course will be to identify clues in the rock and fossil record which indicate past environmental conditions in the Western United States; Transfer Status: Transferable to USC Only; see counselor for limitations.</td>
</tr>
<tr>
<td>GEOL 16</td>
<td>3.0</td>
<td>Field Techniques/Geol: So Calif Deserts</td>
<td>2.3 hours lecture, 3.4 hours laboratory; Prerequisite: GEOL 1, 1H, 2 or 5 (may be taken concurrently); Grading: letter grade or pass/no pass; This is a class designed to expose geology majors and others to the techniques employed by geologists in the field and laboratory. The class includes: geologic map reading and preparation, identification of geologic...</td>
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</tbody>
</table>
features in the field, and microscope laboratory techniques. Attendance at two week-end field trips is required.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

**GEOL 17**

Geology of Southern California Deserts
1.7 hours lecture, 1.7 hours laboratory
Prerequisite: GEOL 1, 2, or 5 (may be taken concurrently)
Grading: letter grade or pass/no pass
This is a field trip class offering two weekend 3-day field trips. The purpose of these trips is to acquaint students with the interesting and diverse geologic features of the California Deserts. Not open to students with credit in GEOL 16.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**GEOL 18**

Geology of California
3.4 hours lecture
Grading: letter grade or pass/no pass
This course presents the basic principles of geology through the examination of the rocks, minerals, fossils, and tectonic events unique to California. The class further places California’s unique geology in context of Earth’s plate tectonic processes and geologic history.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**HEALTH EDUCATION (HLED)**

**HLED 3**

Contemporary Health Problems
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is designed to explore today’s major health issues and behaviors in the various dimensions of health. The importance of individual responsibility for personal health and the promotion of informed, positive health behaviors is emphasized. Topics that will be discussed include the dimensions of health, vital statistics, infectious diseases, chronic diseases, nutrition, weight management, exercise, reproductive health, aging, mental health and stress, substance use and abuse, healthcare, and environmental health. This course is not open for credit to students registered in or with credit in HLED 2 or 3 which are required for the AA/AS degrees nor is it open for credit to students registered in or with credit in PSYCH 10.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**HLED 4**

Women’s Health Issues
3.4 hours lecture
Grading: letter grade or pass/no pass
This course proposes to help women attain an optimal state of health. The adoption of a healthy lifestyle will be examined through topics such as reproductive health issues, sexuality, mental wellness, positive body image and self-esteem, exercise, nutrition, weight management, disease prevention, substance use and addiction, and informed consumerism. Other topics include gender differences in health and mortality and the current status of research on women’s health issues.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**HLED 5**

Men’s Health Issues
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is designed to explore contemporary health issues and how they affect men. A variety of topics will be addressed, including: cardiovascular disease, relationships and sexuality, alcohol and substance abuse, stress, and psychological health. These topics will be examined with a focus on how they influence the wellness of men.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**HLED 10**

Human Sexuality
3.4 hours lecture
Grading: letter grade or pass/no pass
This is an introduction to human sexual knowledge, attitudes and behaviors viewed from the biological, psychological, sociological, cultural and historical perspectives. The course provides three units of elective work in the health sciences or sociology. It does not take the place of HLED 2 or 3 which are required for the AA/AS degrees nor is it open for credit to students registered in or with credit in PSYCH 10.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**HISTORY (HIST)**

**HIST 1A**

History: Western (European) Civilization
3.4 hours lecture
Grading: letter grade
This course is a broad survey of European civilization and its world significance from pre-history to the end of the Thirty Years War, including Greece, Rome, the Middle Ages, Renaissance and Reformation through the Age of Discovery.

Transfer Status:Transferable to UC, CSU; see counselor for limitations.

**HIST 1AH**

Honors History of Western European Civ
3.4 hours lecture
Prerequisite: Qualification for the Honors Program
Grading: letter grade
This course is a broad survey of European civilization and its world significance from pre-history to the end of the Thirty Years War, including Greece, Rome, the Middle Ages, Renaissance and Reformation through the Age of Discovery.

Transfer Status:Transferable to UC, CSU; see counselor for limitations.

**HIST 1B**

History: Western (European) Civilization
3.4 hours lecture
Grading: letter grade
This course, History of Western Civilization, traces European civilization from the end of the Thirty Years War in 1648 to the present, including the French Revolution, the Napoleonic era, the Industrial Revolution, the age of nationalism and imperialism, World Wars I and II, the atomic age, the rise and fall of Soviet power and the post-cold war era.

Transfer Status:Transferable to UC, CSU; see counselor for limitations.
Courses of Instruction

HIST 1BH 3.0 units
Honors History of Western European Civ
3.4 hours lecture
Prerequisite: Qualification for the Honors Program
Grading: letter grade
This course, History of Western Civilization Honors, traces European civilization from the end of the Thirty Years War in 1648 to the present, including the French Revolution, the Napoleonic era, the Industrial Revolution, the age of nationalism and imperialism, World Wars I and II, the atomic age, the rise and fall of Soviet power and the post-cold war era.
Grading: letter grade
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

HIST 5B 3.0 units
History of England and Great Britain
3.4 hours lecture
Grading: letter grade
This course is a survey of English history from the accession of George I of Hanover (1714) to the present with an emphasis on the creation and expansion of the British Empire, the Industrial Era, and the collapse of the European hegemony during World Wars I and II. Particular attention will be given to the postwar adjustment of the United Kingdom to the new set of realities that emerged in the second half of the 20th century, including Britain’s relationship to the European Community.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

HIST 2B 3.0 units
World History to 1500
3.4 hours lecture
Grading: letter grade
This course is an introduction to world history from the origins of civilization to 1500 with an emphasis on interactions between civilizations. Topics include the role of universal religions; political, social, and gender structures; economic and demographic development; diffusion of culture and technology via migration, commerce, and imperial expansion.
Grading: letter grade
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

HIST 2C 3.0 units
World History Since 1500
3.4 hours lecture
Grading: letter grade
This course is a survey of the major world civilizations since 1500 with an emphasis on global interactions. Topics include economic globalization; demographic, environmental and gender transitions; intellectual, religious and cultural transformations; imperialism and resistance to empire, birth of nations; and historical origins of contemporary world.
Grading: letter grade
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

HIST 2CH 3.0 units
Honors World History Since 1500
3.4 hours lecture
Prerequisite: Qualification for the Honors Program
Grading: letter grade
This course is a survey of the major world civilizations since 1500 with an emphasis on global interactions. Topics include economic globalization; demographic, environmental and gender transitions; intellectual, religious and cultural transformations; imperialism and resistance to empire, birth of nations; and historical origins of contemporary world.
Grading: letter grade
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

HIST 5A 3.0 units
History of England and Great Britain
3.4 hours lecture
Grading: letter grade
This class is a survey of British history from antiquity through the reign of Queen Anne (1714). The course focuses on the political, social, religious and intellectual institutions of ancient and medieval English history, with a special emphasis given to the evolution of British political philosophy and law and its impact on European history.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

HIST 8A 3.0 units
History of the Americas
3.4 hours lecture
Grading: letter grade
This course is a comprehensive survey of the Western Hemisphere from the development of its earliest human communities, the subsequent encounters with European civilizations, and the formation of colonial empires. The course focuses on a comparative analysis of the social, economic and political structures of the region through the movement for independence in the nineteenth century.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

HIST 8AH 3.0 units
Honors History of the Americas
3.4 hours lecture
Prerequisite: Qualification for the Honors Program
Grading: letter grade
This course is a comprehensive survey of the Western Hemisphere from the development of its earliest human communities, the subsequent encounters with European civilizations, and the formation of colonial empires. The course focuses on a comparative analysis of the social, economic and political structures of the region through the movement for independence in the nineteenth century.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

HIST 8B 3.0 units
History of the Americas
3.4 hours lecture
Grading: letter grade
This course presents a comprehensive survey of the distinct national identities of the nations of the Western Hemisphere as they developed and matured during the nineteenth and twentieth centuries. The course focuses on a comparative analysis of North and South America as the new nations struggled with economic, political and social issues. This course is recommended for Spanish majors.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
HIST 8BH 3.0 units
Honors History of the Americas
3.4 hours lecture
Prerequisite: Qualification for the Honors Program
Grading: letter grade
This course presents a comprehensive survey of the distinct national identities of the nations of the Western Hemisphere as they developed and matured during the late nineteenth century to present. The course focuses on a comparative analysis of North and South America as the new nations struggled with economic, political and social issues, as well as the international relations in the Western Hemisphere.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

HIST 9A 3.0 units
History of China
3.4 hours lecture
Recommended Preparation: Eligibility for ENGL 1.
Grading: letter grade or pass/no pass
This class is a survey of Chinese history from antiquity to the present with an emphasis on the modern era. Emphasis is given to the evolution of the traditional China, the Chinese way of life, the dynastic cycle, the impact of modernization, the imperial era, and the building of a new society and economic power during the 20th and 21st centuries.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

HIST 9B 3.0 units
History of Japan and Korea
3.4 hours lecture
Recommended Preparation: Eligibility for ENGL 1.
Grading: letter grade or pass/no pass
This class is a survey of Japanese and Korean history from antiquity to the present with an emphasis on the modern era. Particular attention is given to the relationship of both countries to traditional China, the development of a unique way of life in each, and the impact of modernization and the imperial era on these two societies during the 19th, 20th and 21st centuries.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

HIST 9C 3.0 units
History of India and Southeast Asia
3.4 hours lecture
Grading: letter grade or pass/no pass
This class is a survey of the history of India and Southeast Asia from antiquity to the present. Emphasis is placed on the political, economic, social, religious and intellectual institutions of traditional India and representative cultures in Southeast Asia. Special attention is given to the impact of modernization on the Subcontinent, the development of modern India, and the history of representative cultures of Southeast Asia: Vietnam, Laos, Cambodia, Thailand, Burma, Malaya, Sumatra, and Java.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

HIST 10 (CAN HIST 8) 3.0 units
Hist./Early America (Colonial-Reconstr)
3.4 hours lecture
Grading: letter grade
This course is a survey of major political, economic, social, and intellectual trends in the history of the United States from the colonial era through Reconstruction (1877). Attention is given to the collision and creation of cultures during colonization, the development of slavery, the American Revolution and national origins, and the growth and division of the nation before the Civil War. HIST 10 and 11 need not be taken in sequence, if the student desires to take both courses.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

HIST 10H 3.0 units
Honors History/Early America
3.4 hours lecture
Prerequisite: Qualification for the Honors Program
Grading: letter grade
This course is a survey of major political, economic, social, and intellectual trends in the history of the United States, from the colonial era through Reconstruction (1877). Attention is given to the collision and creation of cultures during colonization, the development of slavery, the American Revolution and national origins, and the growth and division of the nation before the Civil War. HIST 10H and 11H need not be taken in sequence, if the student desires to take both courses.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

HIST 11 3.0 units
Hist./Modern America (Reconstr-Present)
3.4 hours lecture
Grading: letter grade
This course is a survey of major political, economic, social, diplomatic and intellectual trends and events in United States history from the end of Reconstruction (1877) to the present. The course emphasizes the building of the modern industrial society, growing involvement in international relations, the evolution of a multi-ethnic community and social reform movements of the 20th and 21st century. HIST 10 and 11 need not be taken in sequence if the student desires to take both courses.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

HIST 11H 3.0 units
Honors History/Modern America
3.4 hours lecture
Prerequisite: Qualification for the Honors Program
Grading: letter grade
This course is a survey of major political, economic, social, diplomatic and intellectual trends and events in United States history from the end of reconstruction (1877) to present. The course emphasizes the building of the modern industrial society, growing involvement in international relations, the evolution of a multi-ethnic community and social reform movements of the 20th century. HIST 10H and 11H need not be taken in sequence if the student desires to take both courses.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

HIST 18 3.0 units
History of Mexico
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is a comprehensive survey of the historical and cultural development of Mexico from the pre-Columbian era to the present. The course focuses...
upon the major intellectual, social and political movements in the formation of modern Mexico.

_Transfer Status: Transferable to UC, CSU; see counselor for limitations._

**HIST 25 3.0 units**

**History of American Woman**

3.4 hours lecture
Grading: letter grade

This course is a survey of the history of women in America from the pre-colonial period to the present. Emphasis is on the relevant political, economic, intellectual, and social roles filled by American women.

_Transfer Status: Transferable to UC, CSU; see counselor for limitations._

**HIST 27A 3.0 units**

**History of the African-American to 1877**

3.4 hours lecture
Grading: letter grade

This course provides a comprehensive survey of the African-American experience in the United States from the colonial period to the Civil War. Emphasis is placed on African civilization prior to European enslavement, the American institution of slavery and the role of African-Americans during colonial wars. Particular attention is given to contributions of African-Americans to the social, economic and political development of the United States.

_Transfer Status: Transferable to UC, CSU; see counselor for limitations._

**HIST 27B 3.0 units**

**Hist/African-American (Reconstr-Present)**

3.4 hours lecture
Grading: letter grade or pass/no pass

This course provides a comprehensive survey of African-American social, political and economic development in the United States from the Reconstruction Period to the present. Emphasis is placed on Jim Crow and white supremacy, the modern civil rights movement and the new struggle for community economic development. Special attention is given to inequality of educational and employment opportunity in the twenty-first century.

_Transfer Status: Transferable to UC, CSU; see counselor for limitations._

**HIST 48 3.0 units**

**History of California**

3.4 hours lecture
Grading: letter grade or pass/no pass

This course is a comprehensive survey of California from pre-Columbian times to the present. It focuses on Amerindian cultures, the exploration, colonization and development of Hispanic California, the coming of the American and the political, economic and cultural development of California since its acquisition by the United States. This course is recommended for those planning a teaching career in California.

_Transfer Status: Transferable to UC, CSU; see counselor for limitations._

**HOMELAND SECURITY ADMIN (HSA)**

**HSA 401 3.0 units**

**Introduction to Homeland Security**

3.4 hours lecture
Grading: letter grade

This course will introduce students to the vocabulary and important components of Homeland Security. It will include the importance of the agencies associated with Homeland Security and their interrelated duties and relationships. It will examine historical events and state, national and international laws that impact Homeland Security. The most critical threats confronting Homeland Security will be examined.

**HSA 402 3.0 units**

**Intelligence Analysis/Security Mgmt**

3.4 hours lecture
Grading: letter grade

This course examines intelligence analysis and its indispensable relationship to the security management of terrorist attacks, man-made disasters and natural disasters. It examines vulnerabilities of the national defense and private sectors, as well as the threats posed to these institutions by terrorists, man-made disasters and natural disasters. Students will examine issues regarding intelligence support of homeland security measures and explore how the intelligence community operates.

**HSA 403 3.0 units**

**Transportation and Border Security**

3.4 hours lecture
Grading: letter grade

This course provides an in-depth view of modern border and transportation security. Specific topics include security for seaports, ships, aircraft, trains, trucks, pipelines, buses and other transportation modes. The course focuses on the technology needed to detect terrorists and their weapons as well as discussion on legal, economic, political and cultural aspects of the problem.

**HORTICULTURE (HORT)**

**HORT 10A 4.0 units**

**Greenhouse Management and Operation**

2.3 hours lecture, 6.8 hours laboratory
Grading: letter grade or pass/no pass

This course will focus on the study of greenhouse structures and operation. Topics will include heating and cooling systems, humidity and watering systems, propagation systems and controls, proper soil mix, fertilizer and injector systems, propagation methods, transplanting, shifting of nursery stock, quality and inventory control, wholesale and retail sales, shipping practices and credit management equal to industry standards. Automation, mechanization and other labor saving equipment and procedures will be discussed. This course also includes field trips.

_Transfer Status: Transferable to CSU Only; see counselor for limitations._
Courses of Instruction

HORT 10B 4.0 units
Greenhouse Management and Operation
2.3 hours lecture, 6.8 hours laboratory
Grading: letter grade or pass/no pass
This course will focus on the study of greenhouse structures and operation. Topics will include heating and cooling systems, humidity and watering systems, propagation systems and controls, proper soil mix, fertilizer and injector systems, propagation methods, transplanting, shifting of nursery stock, quality and inventory control, wholesale and retail sales, shipping practices and credit management equal to industry standards. Automation, mechanization and other labor saving equipment and procedures will be discussed. This course also includes field trips.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

HORT 11A 3.0 units
Plant Identification: Trees
2.3 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
This course focuses on the study of trees, including identification, growth habits, and ornamental uses in the landscape. Trees emphasized will come from the current California Association of Nurserymen & Garden Centers and Associated Landscape Contractors of America Certification Test Plants list. Required field trips will be part of this class’ requirements.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

HORT 11B 3.0 units
Plant Identification: Shrubs
2.3 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
This course will focus on the study of shrubs, including identification, growth habits, and ornamental uses in the landscape. Shrubs emphasized will come from the current California Association of Nurserymen & Garden Centers and Associated Landscape Contractors of America Certification Test Plants list.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

HORT 11C 3.0 units
Plant Identification: Herbaceous
2.3 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
This course will focus on the study of herbaceous plant materials, including identification, growth habits, and ornamental uses in the landscape. Herbaceous plant material emphasized will come from the current California Association of Nurserymen & Garden Centers and Associated Landscape Contractors of America Certification Test Plants list.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

HORT 11D 3.0 units
Plant Identification: Tropicals
2.3 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
This course will focus on the study of tropical plant materials, including identification, growth habits, and ornamental uses in the landscape. Tropical material emphasized will come from the current California Association of Nurserymen & Garden Centers and Associated Landscape Contractors of America Certification Test Plants list.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

HORT 15A 2.0 units
Basic Horticulture
1.7 hours lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass
This course will present the basic aspects and techniques of the horticulture industry for spring: nomenclature, plant physiology, soils, fertilizers, propagation, pest identification and control. This course also includes field trips.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

HORT 15B 2.0 units
Basic Horticulture
1.7 hours lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass
This course will present the basic aspects and techniques of the horticulture industry for fall: nomenclature, plant physiology, soils, fertilizers, plant propagation, pest identification and plant cultivation. This course also includes field trips.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

HORT 19 4.0 units
Turf Management
2.3 hours lecture, 6.8 hours laboratory
Grading: letter grade or pass/no pass
This course is an introduction to the study of the maintenance and management of turfgrasses that are used in athletic fields, golf courses, parks, cemeteries, commercial, and residential lawns. Discussion will focus on identification, installation, cultural requirements, and maintenance practices. Students will participate in the removal of sod and installation of new turf from seed or sod.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

HORT 21 3.0 units
Principles of Landscape Design
3.4 hours lecture
Grading: letter grade or pass/no pass
Students in this course will learn basic landscape design and drafting skills in accordance to industry standards, including landscape symbols and lettering for plant materials, hardscape, irrigation, lighting and electrical, local and state codes. Students will prepare a finished drawing of a new landscape site with cost estimates for materials and labor. This course also includes field trips.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

HORT 26A 4.0 units
Plant Propagation — Spring
3.4 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
This course concentrates on plant propagation and production practices for the Spring season. Emphasis is on nursery operations including sexual and asexual reproduction, planting, transplanting, fertilizing, and plant pest and disease control. Instruction includes an overview of structures and site layout; preparation and use of propagating and planting mediums; use and
Courses of Instruction

maintenance of common tools and equipment, and regulations pertaining to plant production based on industry standards and trends. This course also includes field trips.

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**HORT 26B**

**Plant Propagation — Fall**

3.4 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass

This course concentrates on plant propagation and production practices for the Fall season. Emphasis is on nursery operations including sexual and asexual reproduction, planting, transplanting, fertilizing, and plant pest and disease control. Instruction includes an overview of structures and site layout; preparation and use of propagating and planting mediums; use and maintenance of common tools and equipment, and regulations pertaining to plant production based on industry standards and trends. This course also includes field trips.

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**HORT 30**

**Integrated Pest Management**

3.4 hours lecture
Grading: letter grade or pass/no pass

This course will focus on the study of diagnosing pests and diseases of ornamental plants and turf, chemical and biological control and their regulation, local, and state and federal laws pertaining to pesticide application. Students will prepare for the pesticide applicator’s exam. This course also includes field trips.

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**HORT 202**

**Principles of Pruning**

2.3 hours lecture, 6.8 hours laboratory
Grading: letter grade or pass/no pass

Formerly HORT 202AB. Students will learn to properly prune trees, shrubs, vines and identify pruning periods for deciduous and evergreen plants. Students will also identify and safely operate tools and equipment to industry standards as well as perform maintenance and repair of tools and equipment.

**HORT 223**

**Landscape Construction**

2.3 hours lecture, 6.8 hours laboratory
Grading: letter grade or pass/no pass

Formerly HORT 223AD. This course will enable students to develop a basic knowledge of the theory and application of soil preparation, equipment operation, planting, installation and maintenance and hardscape techniques. Emphasize will be placed on landscape plan layout as well as bidding along with decking and masonry construction, irrigation troubleshooting, design and installation.

**HORT 227**

**Interior Plant Design/Installation/Maint.**

1.7 hours lecture, 1.7 hours laboratory
Grading: letter grade or pass/no pass

Students in this course will learn interior landscape design, installation, and maintenance techniques, as well as cultural and climatic conditions, and pests and diseases and their prevention, control or eradication. Students will learn color and seasonal plants and how to bid and sell a design.

**HORT 323**

**Landscape Construction**

0.5 hour lecture, 1.2 hours laboratory
Grading: letter grade or pass/no pass

Formerly HORT 323AD. This course will aid students in developing a basic knowledge of the theory and application of soil preparation, equipment operation, planting, maintenance and techniques in irrigation, masonry, wood fences and gates and bidding.

**HORT 430**

**Landscape Maintenance**

3.4 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass

This course prepares students to enhance the function and aesthetic value of public and private landscapes by applying appropriate maintenance techniques. Topics include planting, pruning, watering, soil fertility, pest management, weed control, and landscape maintenance business practices.

**HUMAN SERVICES/SOCIAL WORK**

**HS 1**

**Introduction to Social Work**

3.4 hours lecture
Grading: letter grade or pass/no pass

This course is designed to identify and analyze the history and development of the primary services in urban and rural communities in America. Working in the social work field is explored as helping process with a wide range of systems and social work knowledge; ethics, values, principles, professional relationships, interviewing and beginning assessment and intervention phases are also examined. The skills and responsibilities of the Social Worker in resolution of psychosocial problems are examined.

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**HS 7**

**Introduction to Victimology**

3.4 hours lecture
Grading: letter grade

The course examines the cost of victimization to society. The existing resources will be examined. Suggestions for ways that resources can be expanded will be suggested. Career opportunities for working in this field will be presented. Classwork is supplemented by field site visits to several primary providers of service to victims and their families.

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**HS 15**

**Social Welfare: People with Disabilities**

3.4 hours lecture
Grading: letter grade

This course is an overview of various disabilities and their etiology. It includes the study of methods and the processes involved in the adjustments of people and their families to various disabilities. It includes an in-depth analysis of stereotypes, prejudices and discrimination.
Courses of Instruction

and the psychological factors involved with limiting persons with disabilities. An overview of the various social services available to persons with disabilities needed to allow them to return to as close to a normal life as possible is given.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

HS 26 3.0 units
Introduction to Gerontology
3.4 hours lecture
Grading: letter grade or pass/no pass
This course provides an overview of the social, psychological and biological effects of aging, emphasizing individual differences among older adults, including ethnic differences. Students will examine several theoretical perspectives, research methods, cognitive and developmental studies and how individuals are molded under these influences that change over time. Students will develop an overall understanding of key psychological and developmental terms, concepts, theories and important influences of human behavior over a lifespan.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

HS 40A 3.0 units
Introduction to Addictive Behaviors
3.4 hours lecture
Grading: letter grade
This course is designed for individuals who wish to expand their overall knowledge of addictive behaviors. Topics covered include the basic causal relationship between alcoholism, drug abuse and addictive personalities. Students will be taught how to identify treatable issues, establish goals and objectives to treat these issues and practice implementing them to determine their effectiveness with both inpatient and outpatient populations. This course is designed to prepare students for level entry positions in the growing human services field.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

HS 40B 3.0 units
Introduction to Addictive Behaviors
3.4 hours lecture
Grading: letter grade
This course is designed for individuals who wish to expand their knowledge of addictive behaviors. Topics covered include basic theories of codependency and eating disorders, and the exploration of methods to identify, classify, intervene with and treat clients. This course is designed for persons who are preparing for careers in the rapidly growing human services field.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

HS 41 3.0 units
Introduction to Chemical Dependency
3.4 hours lecture
Grading: letter grade
This course takes the student through the history of abuse of alcohol and other mood altering substances. How persons develop the ability to abuse and become addicted to other behaviors, such as food and sex, will also be examined. Psychological, social and physical contributions and outcomes of addictive behavior will be presented. This course is designed for those students interested in the helping professions, especially those interested in a career in Alcohol and Drug Studies. This course will assist students in preparation for the California Association of Alcohol/Drug Educators (CAADE) and/or California Association of Alcohol and Drug Abuse Counselors (CAADAC) certification tests.

HS 43 3.0 units
Case Management: Treatment & Aftercare
3.4 hours lecture
Grading: letter grade
Students will examine ways to conduct initial intake assessments, design, implement and evaluate a treatment plan plus examine various types of treatment programs and major issues to address for effective termination of clients. Client/case manager legal and confidentiality issues will also be presented. This course is designed for those interested in the helping fields. This course is required for students in preparing for the California Association of Alcohol/Drug Educators (CAADE) and/or California Association of Alcohol and Drug Abuse Counselors (CAADAC) certification. This course is required for both CAADE and CAADAC certification.

HS 45 3.0 units
Stress Management for Case Managers
3.4 hours lecture
Grading: letter grade
This course examines the many psychological, social and environmental stresses commonly experienced by persons working in the helping fields. Specific ways to cope or more effectively manage these stressors will be presented, with heavy emphasis on the Cognitive Behavioral Therapy Model. Material will include techniques to deal with individual, social & interpersonal issues. The course is strongly recommended for individuals working as case managers in the helping fields. It will assist students in preparing for the California Association of Alcohol/Drug Educators (CAADE) and/or California Association of Alcohol and Drug Abuse Counselors (CAADAC) certification exam. HS 45 is required for persons seeking CAADAC certification. This course is an elective for CAADE students. It is also recommended for persons wishing to work in other areas of the Human Services field.

HS 46 3.0 units
Physiology & Pharmacology of Drugs
3.4 hours lecture
Grading: letter grade
This course examines the effects that alcohol and several other psychoactive drugs have on our brain, body and everyday behavior. Issues including drug tolerance, co-occurring disorders and the effects of drugs on sexual performance are examined and as well as how to utilize this information when developing a treatment plan. This course is required for students preparing for both the California Association of Alcohol/Drug Educators (CAADE) and/or California Association of Alcohol and Drug Abuse Counselors (CAADAC) certification.

HS 47 3.0 units
Intervention, Treatment & Recovery
3.4 hours lecture
Grading: letter grade
This course examines the treatment and recovery communication process from the perspective of both the client and case manager. Several therapeutic educational approaches will be presented and applied through
Homework skills assignments and case presentations. This course is designed for students interested in the helping professions or pursuing a career in alcohol/drug studies. This course will assist students in preparation for the California Association of Alcohol/Drug Educators (CAAADE) and/or California Association of Alcohol and Drug Abuse Counselors (CAADAC) certification exam.

**HS 48**  
**Group & Family Process**  
3.4 hours lecture  
Grading: letter grade  
Students will explore the counseling process from the perspective of both the client and counselor. Therapeutic orientations of group/family counseling will be learned and applied through class role playing. The course is designed for students interested in the helping professions. The course will assist students in preparation for the California Association of Alcohol/Drug Educators (CAADAC) and/or California Association of Alcohol and Drug Abuse Counselors (CAADAC) certification.

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**HS 50**  
**Law and Ethics**  
3.4 hours lecture  
Grading: letter grade  
Topics covered include the applicable laws and ethics relating to case manager/client relationship in a treatment setting. Laws relating to confidentiality, patient rights, assessments, sharing of personal information and crisis intervention requirements will be presented. Learning how to deal with such issues as evaluating a person’s potential for suicide, child & elder abuse and when individuals pose a serious potential to harm to others are also examined. This is a core course for Alcohol & Drug Studies majors who are pursuing a Career Certificate.

**HS 71AD**  
**Work Experience — Human Services**  
1.1 hours lecture, 4.6 hours laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline.  
Grading: letter grade or pass/no pass  
This course prepares students to develop work experience objectives, career goals, job interviewing skills, how to write a resume and address employment issues encountered in the workplace. Field placements provide vocational experiences through direct work experiences in the Alcohol/Drug treatment and Human Services disciplines.

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**HS 72A**  
**Fieldwork in Human Services (A)**  
3.4 hours lecture  
Prerequisite: HS 50 and HS 43  
Recommended Preparation: ENGL 105  
Grading: letter grade  
Formerly HS 72AD. This course covers topics including student role and responsibilities in social service agencies, professional role model, and desirable traits in the human services field. Ethics and ethical dilemmas will be discussed. Emphasis will be placed on setting and achieving three work objectives and how to solve everyday issues and problems in the workplace. This course also covers guidelines for students to participate up to 125 hours of supervised fieldwork at a pre-approved work site as out of classroom assignments.

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**HS 72B**  
**Fieldwork in Human Services (B)**  
3.4 hours lecture  
Prerequisite: HS 72A  
Grading: letter grade  
Formerly HS 73AD. This is the second course which further addresses topics relating to fieldwork in social services agencies. Specific topics include professional boundaries, client expectations, interpersonal conflicts in the workplace and cultural diversity. Emphasis will be placed on setting and achieving extended fieldwork objectives and how to solve issues and problems professionally in the workplace. This course also requires students to participate in 125 hours of supervised fieldwork and achieve three work-related objectives at a pre-approved work site as assignments. The purpose of this course is to advance students' professionalism, to increase the opportunity of meeting the State certification requirement of supervised fieldwork experience, and to prepare students for passing the California Association of Alcohol & Drug Educators (CAADAC) certification test.

**HS 207**  
**Development of Helping/Listening Skills**  
3.4 hours lecture  
Grading: letter grade or pass/no pass  
This course is designed for persons who are interested in working in counseling/case manager roles in the human services field. Topics covered include developing techniques for volunteer, peer and para-professionals working in the people-helping fields. Students will develop skills in initiating, attending, responding and personalizing assistance to clients. Small groups will be used to guide students through a learning sequence of listening and helping skills.

**HS 242**  
**Conflict Resolution/Mediation**  
3.4 hours lecture, 1.1 hours laboratory  
Grading: letter grade  
This course examines the background, development and methodology of non-violent, non-litigious conflict resolution skills with emphasis on theory and the practice of mediation. This course is designed for students and those working with individuals, groups or staff who deals with interpersonal conflicts in the alcohol & drug treatment community.

**HS 252**  
**Co Occurring Disorders**  
3.4 hours lecture  
Grading: letter grade  
This course explores understanding mental illness and persons with more than one mental/psychiatric disorder. It introduces students to the various disorders in infancy, childhood, adolescence and adulthood. It will introduce students to co-existing disorders and various diagnosis
and treatment techniques used to treat this unique population. Students will tour two different types of mental health facilities, to provide an additional understanding of mental health issues.

**HS 255**  
**Alcohol & Drug Prevention & Education**  
3.4 hours lecture  
Grading: letter grade  
This course will review the essential components of effective Alcohol & Drug prevention programs. Prevention programs and activities appropriate for the community, school, parents, family, and worksites will be presented. Strategies such as education; public policies; media/information dissemination, ethnic, cultural, gender-specific approaches; and environmental risk reduction and alternatives will be presented and assessed for their application to different target populations.

**HS 260**  
**Domestic Violence Intervention Strategies**  
3.4 hours lecture  
Grading: letter grade  
This course is designed to provide a portion of the required academic training needed to prepare students to pursue the work experience required to qualify as a Certified Domestic Violence Counselor. Training shall include, but will not be limited to, the following: history of domestic violence, civil and criminal law as it is related to domestic violence, societal attitudes towards domestic violence, peer counseling techniques, housing, public assistance and other financial resources available to meet the financial needs of domestic violence victims.

**HUMANITIES (HUMAN)**

**HUMAN 1**  
**Comparative World Cultures**  
3.4 hours lecture  
Grading: letter grade or pass/no pass  
This course compares and contrasts major civilizations using an interdisciplinary approach or team teaching drawn from the Humanities and the Social Sciences. It covers the study of two or more major cultures to determine how these human communities met their basic biological, material, religious and intellectual needs, and experienced both continuity and change through time.

This course is part of the Honors Curriculum. This course is not open for credit to students who have completed HUMAN 1, SOCSC 1, or SOCSC 1H.  
**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

**HUMAN 7**  
**American Pluralism and Identity**  
3.4 hours lecture  
Grading: letter grade or pass/no pass  
This course explores the multicultural nature of American society from a Humanities and Social Sciences perspective. The course examines how ethnic groups in America have constructed artistic, literary, musical, philosophical and religious identities based on their traditions and experiences and seeks to understand the United States as a common culture. Using the Social Sciences to compare and contrast the origins, living conditions and experiences of Americas constituent populations, the course analyzes the complexity of the processes effecting the interaction of the American people. Not open to students registered in or with credit in SOCSC 7.  
**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

**INTERIOR DESIGN (ID)**

**ID 1**  
**Fundamentals of Interior Design**  
3.4 hours lecture  
Grading: letter grade or pass/no pass  
Fundamentals of Interior Design provides an introduction to the design principles and elements necessary for the planning of interior environments that meet individual, functional, legal and environmental needs. The application of design materials and products used in interior environments will be emphasized.  
**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**ID 20**  
**Interior Design Careers**  
2.3 hours lecture  
Grading: letter grade or pass/no pass  
This course will provide a survey of the interior design profession, industry, related occupations and work sites. This course will emphasize personal, educational and professional qualifications required for entry into the interior design profession.  
**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

**ID 30**  
**Applied Color Theory and Design**  
3.4 hours lecture, 3.4 hours laboratory  
Grading: letter grade or pass/no pass  
This course provides review of basic color and design theory and design application. The review of color theories includes Munsell, Albers, Itten and Otswald. Interior color exercises are applied to an interior design project. This course also explores psychological implications of design and color forecasting trends.  
**Transfer Status:** Transferable to CSU Only; see counselor for limitations.
### Courses of Instruction

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Course Description</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Transfer Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 40</td>
<td>3.0</td>
<td>Advanced CAD for Interior Design</td>
<td>2.3 hours lecture, 3.4 hours laboratory</td>
<td>Grading: letter grade</td>
<td>The CAD for Interior Design course will focus on learning the principles and methods of computer graphic applications utilizing CAD. Projects will include computer drafting, a small set of construction documents.</td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>ID 45</td>
<td>2.0</td>
<td>Codes, Systems &amp; Specifications</td>
<td>1.1 hours lecture, 3.4 hours laboratory</td>
<td>Grading: letter grade</td>
<td>The course will study both national and local building codes as they apply to Interior Design (ID). Survey implications of typical building systems, acoustical, energy conservation, accessibility and safety concerns influencing ID solutions. Both drafted plans and written specifications will be required to resolve assigned case studies.</td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>ID 55</td>
<td>3.0</td>
<td>Digital Illustration</td>
<td>1.1 hours lecture, 3.4 hours laboratory</td>
<td>Grading: letter grade</td>
<td>Exploration of computer aided rendering and image manipulation techniques of 3D objects and interior spaces. Will include techniques for visual composition and presentation using the processes, technology and terminology of digital media software utilized by the design industry.</td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>ID 70</td>
<td>3.0</td>
<td>Space Planning</td>
<td>2.3 hours lecture, 3.4 hours laboratory</td>
<td>Grading: letter grade</td>
<td>This course will provide space planning evaluation and creation involving both residential and contract interior design projects. Formal drawings will incorporate programming, matrix adjacency study, furniture arrangement, as well as ADA code and Universal Design.</td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>ID 90</td>
<td>3.0</td>
<td>History of Interiors and Furnishings II</td>
<td>3.4 hours lecture</td>
<td>Grading: letter grade</td>
<td>The historical relationship between the decorative arts, period furniture and interior architecture is illustrated in this overview of design heritage. Beginning with the sixteenth century in America, this course analyzes the influences and changes in design to the present. The course emphasizes style development as it relates to social, economic and political forces.</td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>ID 200</td>
<td>2.0</td>
<td>Interior Illustration</td>
<td>1.1 hours lecture, 3.4 hours laboratory</td>
<td>Recommended Preparation: ID 10</td>
<td>This course covers application methods, techniques and tools used for illustrating interior spaces and products. Instruction will include one and two point perspective, elevations, highlighting, shading, and shadowing of interior elements.</td>
<td></td>
</tr>
<tr>
<td>ID 215</td>
<td>2.0</td>
<td>Interior Design Studio II</td>
<td>1.1 hours lecture, 3.4 hours laboratory</td>
<td>Prerequisite: ID 5</td>
<td>This course will apply the formal design process to the contract design project. This contract project will include the application of LEED/Green Design practices, illustration and rendering techniques and a complete set of formal design drawings.</td>
<td></td>
</tr>
<tr>
<td>ID 230</td>
<td>3.0</td>
<td>Business and Professional Practice</td>
<td>3.4 hours lecture</td>
<td>Grading: letter grade</td>
<td>The business and professional management of an interior design practice, including legal issues, project management and business practices.</td>
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</tr>
<tr>
<td>ID 272</td>
<td>1.0</td>
<td>Residential Furnishings</td>
<td>1.1 hours lecture</td>
<td>Grading: letter grade</td>
<td>This course provides a practical analysis of furniture design for the residential space. Consideration of furniture function, social use, case studies, design theory and fabrication will be observed. The construction of upholstered furniture and case goods will be evaluated for quality standards.</td>
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</tbody>
</table>

### JOURNALISM (JOURN)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Course Description</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Transfer Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOURN 1A</td>
<td>3.0</td>
<td>Digital Design and Publication</td>
<td>3.4 hours lecture</td>
<td>Grading: letter grade</td>
<td>In the course, students study and practice digital design and publication skills such as writing, editing, designing and producing websites, fliers, brochures, newsletters, small magazines and newspapers, using electronic publishing techniques.</td>
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</tr>
<tr>
<td>JOURN 1B</td>
<td>3.0</td>
<td>Digital Design and Publication</td>
<td>3.4 hours lecture</td>
<td>Grading: letter grade</td>
<td>In this course, students study and practice advanced digital design publication skills such as writing, editing, designing and producing websites, fliers, brochures, newsletters, small magazines and newspapers using electronic publishing techniques.</td>
<td></td>
</tr>
</tbody>
</table>
Courses of Instruction

JOURN 5 4.0 units
Introduction to Public Relations
4.5 hours lecture
Grading: letter grade
This course includes instruction in fundamentals of publicity and public relations for community groups and business organizations. Students identify and discover sources, techniques and outlets to gain publicity. Students practice planning and preparing various types of publicity programs and press releases.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

JOURN 6 3.0 units
Magazine Writing
2.3 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
Formerly JOURN 6AD. Students will analyze principles of magazine publication and methods of researching, writing, editing, and producing magazines of every type. Students will receive practical training and instruction in researching, interviewing, writing, editing and proofreading. Students guide photographers to complete team assignments.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

JOURN 10 3.0 units
Intro to Global Media Communications
3.4 hours lecture
Grading: letter grade
In this course students study the social, economic, political, and cultural influence of the mass media on the individual and society. The class is designed for all majors. In this course students study the social, economic, political, and cultural influence of the mass media on the individual and society. The class is designed for all majors.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

JOURN 20 4.0 units
Beginning Newswriting and Reporting
4.5 hours lecture
Prerequisite: Eligibility for ENGL 1.
Grading: letter grade
Students will gain experience recognizing, researching and writing news stories, including college topics, breaking news, issues, government, elections, entertainment, sports, obituaries and profiles. Students will learn the importance of accuracy, the First Amendment, libel, media responsibility, fairness, balance and neutrality.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

JOURN 25 3.0 units
Free-Lance Writing
3.4 hours lecture
Grading: letter grade or pass/no pass
The course offers training in the writing and marketing of website, newspaper and magazine feature stories.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

JOURN 35 3.0 units
Photojournalism
3.4 hours lecture
Grading: letter grade
Formerly JOURN 35AD. The course offers instruction in basic and advanced photojournalism techniques and practical experience in newspaper photography. It is not open to students registered in or with credit in PHOT 35.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

JOURN 36 3.0 units
Digital Photojournalism
3.4 hours lecture
Prerequisite: JOURN 35
Grading: letter grade
This course offers instruction in basic and advanced photojournalism techniques and practical experience in web, digital, social-media network, newspaper and magazine photography and audio recording. It is not open to students registered in or with credit in PHOT 35.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

JOURN 40 3.0 units
Social Media in Journalism
3.4 hours lecture
Grading: letter grade
Students learn and understand multiple aspects and principles of beginning Social Media in Journalism through discussion, analysis, review, research and practice of accuracy, ethics, timeliness, privacy, legal issues, security, development, technology, interaction with print publications, photojournalism, subscriptions, future formats, frequency, replies, anonymity, impact, audience, citizen journalism, feedback and other areas. Designed for all majors, the course utilizes critical thinking, writing, oral communication and mathematics to educate students about this rapidly growing and innovative area of communication that is shaping the field of Journalism.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

JOURN 5 4.0 units
Introduction to Public Relations
4.5 hours lecture
Grading: letter grade
This course includes instruction in fundamentals of publicity and public relations for community groups and business organizations. Students identify and discover sources, techniques and outlets to gain publicity. Students practice planning and preparing various types of publicity programs and press releases.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

JOURN 35 3.0 units
Photojournalism
3.4 hours lecture
Grading: letter grade
Formerly JOURN 35AD. The course offers instruction in basic and advanced photojournalism techniques and practical experience in newspaper photography. It is not open to students registered in or with credit in PHOT 35.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

JOURN 36 3.0 units
Digital Photojournalism
3.4 hours lecture
Prerequisite: JOURN 35
Grading: letter grade
This course offers instruction in basic and advanced photojournalism techniques and practical experience in web, digital, social-media network, newspaper and magazine photography and audio recording. It is not open to students registered in or with credit in PHOT 35.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

JOURN 40 3.0 units
Social Media in Journalism
3.4 hours lecture
Grading: letter grade
Students learn and understand multiple aspects and principles of beginning Social Media in Journalism through discussion, analysis, review, research and practice of accuracy, ethics, timeliness, privacy, legal issues, security, development, technology, interaction with print publications, photojournalism, subscriptions, future formats, frequency, replies, anonymity, impact, audience, citizen journalism, feedback and other areas. Designed for all majors, the course utilizes critical thinking, writing, oral communication and mathematics to educate students about this rapidly growing and innovative area of communication that is shaping the field of Journalism.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

JOURN 71 2.0 units
Work Experience-Journalism
1.1 hours lecture, 4.6 hours laboratory
Corequisite: Concurrent enrollment in at least one additional course in the discipline.
Grading: letter grade or pass/no pass
Formerly JOURN 71AD. This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment or volunteer time directly related to occupational goal or career of interest to the student.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

JOURN 72 3.0 units
Work Experience-Journalism
1.1 hours lecture, 9.3 hours laboratory
Corequisite: Concurrent enrollment in at least one additional course in the discipline.
Grading: letter grade or pass/no pass
Formerly JOURN 72AD. This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment or volunteer time directly related to occupational goal or career of interest to the student.
Transfer Status: Transferable to CSU Only; see counselor for limitations.
### Courses of Instruction

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Unit(s)</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOURN 73</td>
<td>4.0</td>
<td>Work Experience-Journalism</td>
<td>Concentrates on vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student.</td>
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<tr>
<td></td>
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<td>Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>JOURN 80</td>
<td>4.0</td>
<td>Multimedia Newsroom: News</td>
<td>Focuses on the production of multimedia news as it relates to feature stories.</td>
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<td></td>
<td>Students will research, write and produce feature and sports stories about Long Beach City College utilizing photos, videos, blogs, artwork, tweets, postings, informational graphics and other products under deadline pressures.</td>
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<td>Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>JOURN 81</td>
<td>4.0</td>
<td>Multimedia Newsroom: Features</td>
<td>Focuses on the visual aspects of multimedia news and artists and selection and placement of stories and visuals for online formats and the printed newspaper or magazine.</td>
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<td>Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>JOURN 82</td>
<td>4.0</td>
<td>Multimedia Newsroom: Profiles</td>
<td>Focuses on executive editing skills. Topics will include editing photos, artwork, infographics, videos, ethics and responsibility.</td>
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<td>Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>JOURN 83</td>
<td>4.0</td>
<td>Multimedia Newsroom: Politics</td>
<td>Concentrates on the reporting of politics and government.</td>
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<td>Students will gather information by attending political speeches, government meetings, rallies, protests and other related events.</td>
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<td>Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>Course Code</td>
<td>Units</td>
<td>Course Title</td>
<td>Hours</td>
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<tr>
<td>KINA 1AD</td>
<td>1.0</td>
<td>PE for the Physically Limited</td>
<td>3.4</td>
</tr>
<tr>
<td>KING 2</td>
<td>1.0</td>
<td>Ultimate Frisbee</td>
<td>3.4</td>
</tr>
<tr>
<td>KING 9</td>
<td>0.5</td>
<td>Badminton</td>
<td>2.3</td>
</tr>
<tr>
<td>KING 10</td>
<td>1.0</td>
<td>Badminton</td>
<td>3.4</td>
</tr>
<tr>
<td>KING 10B</td>
<td>1.0</td>
<td>Badminton</td>
<td>3.4</td>
</tr>
<tr>
<td>KING 12</td>
<td>1.0</td>
<td>Baseball</td>
<td>3.4</td>
</tr>
<tr>
<td>KING 14</td>
<td>1.0</td>
<td>Basketball</td>
<td>3.4</td>
</tr>
<tr>
<td>KING 14B</td>
<td>1.0</td>
<td>Basketball</td>
<td>3.4</td>
</tr>
<tr>
<td>KING 20</td>
<td>1.0</td>
<td>Bowling</td>
<td>3.4</td>
</tr>
<tr>
<td>KING 32</td>
<td>1.0</td>
<td>Golf</td>
<td>3.4</td>
</tr>
</tbody>
</table>
courses of instruction

goals will be achieved through instruction and play at local 9-hole courses.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KING 32B 1.0 unit
Golf
3.4 hours laboratory
Recommended Preparation: KING 32.
Grading: letter grade or pass/no pass
This course provides the study and practice of golf at an intermediate level. Continued instruction in strategy, rules, skill development, course management and golf etiquette will be included and achieved through instruction and play at local 9-hole courses.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KING 55 4.0 units
Lifeguard/Water Safety Training
3.4 hours lecture, 3.4 hours laboratory
Recommended Preparation: Advanced swimming ability
Grading: letter grade
Formerly KING 55AD. This is a Certification courses for American Red Cross water safety instructors and lifeguards. This course enables students to instruct swimming courses and to serve as lifeguards at aquatic facilities.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KING 65 1.0 unit
Martial Arts
3.4 hours laboratory
Grading: letter grade
Formerly KING 65AD. This course is an introduction to the basic techniques of martial arts systems. Discussion of each style, as well as physical and mental attributes of those likely to excel within each system is included. This non-sparring exercise program improves reflexes, coordination, strength, flexibility, balance, conditioning, endurance and muscle tone. Emphasis is placed on the fundamentals of martial arts, including martial arts safety skills and etiquette, punches, blocks, strikes, kicks, stances, vital points, kata and forms, and kick/strike analysis.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KING 65B 1.0 unit
Martial Arts
3.4 hours laboratory
Recommended Preparation: KING 65.
Grading: letter grade or pass/no pass
This course provides the continued study of and practice in techniques of martial arts systems. Discussion of each style, as well as, physical and mental attributes of those likely to excel within each system is included. This non-sparring exercise program improves reflexes, coordination, strength, flexibility, balance, conditioning, endurance, and muscle tone. Emphasis is placed on the continued development of the fundamentals of martial arts safety skills and etiquette, punches, blocks, strikes, kicks, stances, vital points, kata and forms, and kick/strike analysis.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KING 66 1.0 unit
Self-Defense
3.4 hours laboratory
Grading: letter grade
Formerly KING 66AD. The course covers safety, defense, techniques and practical applications of skills for self-defense, psychological defenses and assertiveness training in a technical and practical framework. Strikes, kicks, blocks, take downs, take down defense, throws, sweeps, ground fighting, and core strengthening will be covered.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KING 66B 1.0 unit
Self Defense
3.4 hours laboratory
Recommended Preparation: KING 66.
Grading: letter grade or pass/no pass
This course provides the continued study of Self Defense. Topics will include strikes, kicks, blocks, take downs, take down defense, throws, sweeps, ground fighting, and core strengthening.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KING 70 1.0 unit
Soccer
3.4 hours laboratory
Grading: letter grade
Formerly KING 70AD. This course is designed to provide an overview of the sport of soccer with focus on instruction in the rules, techniques and strategies.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KING 70B 1.0 unit
Soccer
3.4 hours laboratory
Recommended Preparation: KING 70.
Grading: letter grade or pass/no pass
This course provides the continued study of and practice in soccer. Topics that will be examined are performance skill techniques, fitness, offensive and defensive strategies. Emphasis will be placed on game and tournament play.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KING 74 1.0 unit
Softball
3.4 hours laboratory
Grading: letter grade
Formerly KING 74AD. This course is designed to provide instruction in the fundamentals of softball including strategy, rules, and the skills of throwing, hitting and catching.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KING 76 1.0 unit
Swimming
3.4 hours laboratory
Grading: letter grade
Formerly KING 76AD. This course is designed to provide instruction in the fundamentals of swimming including basic skills, strategies, rules, stroke mechanics and techniques.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Units</th>
<th>Title</th>
<th>Hours Laboratory</th>
<th>Grading</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KING 83</td>
<td>0.5 unit</td>
<td>Tennis</td>
<td>2.3 hours</td>
<td>letter grade</td>
<td>This course is designed to provide instruction in the fundamentals of tennis, including strategy, rules, the forehand and backhand groundstrokes, and the serve. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>KING 84</td>
<td>1.0 unit</td>
<td>Tennis</td>
<td>3.4 hours</td>
<td>letter grade</td>
<td>This course is designed to provide instruction in the fundamentals of tennis, including strategy, rules, the forehand and backhand groundstrokes, and the serve. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>KING 86</td>
<td>1.0 unit</td>
<td>Touch Football</td>
<td>3.4 hours</td>
<td>letter grade</td>
<td>This course offers instruction in the rules, strategies, and proper techniques required for the game of touch football. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>KING 88</td>
<td>1.0 unit</td>
<td>Track &amp; Field</td>
<td>3.4 hours</td>
<td>letter grade</td>
<td>This course covers instruction in the rules, techniques and strategies of track and field. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>KING 90</td>
<td>1.0 unit</td>
<td>Volleyball</td>
<td>3.4 hours</td>
<td>letter grade</td>
<td>This course is designed to provide instruction of the basic fundamentals of volleyball including setting, passing, hitting, and team play. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>KING 90B</td>
<td>1.0 unit</td>
<td>Volleyball</td>
<td>3.4 hours</td>
<td>letter grade</td>
<td>This course provides the continued study of and practice in volleyball. Topics that will be examined are performance skills, fitness, and offensive and defensive strategies. Emphasis will be placed on game and tournament play. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>KING 92</td>
<td>1.0 unit</td>
<td>Sand Volleyball</td>
<td>3.4 hours</td>
<td>letter grade</td>
<td>This course provides instruction in the basic skills needed to play sand volleyball. Students will learn strategies, rules and etiquette for sand volleyball with an emphasis on individual skills, doubles and six versus six team play. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>KING 92B</td>
<td>1.0 unit</td>
<td>Sand Volleyball</td>
<td>3.4 hours</td>
<td>letter grade or pass/no pass</td>
<td>This course provides the continued study of and practice in sand volleyball. Topics included performance skill techniques, offensive strategies and defensive strategies, fitness. Emphasis will be placed on game and tournament play. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>KING 94</td>
<td>1.0 unit</td>
<td>Rugby</td>
<td>3.4 hours</td>
<td>letter grade or pass/no pass</td>
<td>This course provides the study of and practice in the team sport of Rugby. Topics that will be examined are fundamental skills, rules, history, scoring and etiquette. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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</tbody>
</table>

**KINESIOLOGY, INTERCOLLEGIATE ATHLETICS (KINIA)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Units</th>
<th>Title</th>
<th>Hours Laboratory</th>
<th>Grading</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINIA 1AD</td>
<td>3.0 units</td>
<td>Baseball (Men)</td>
<td>11.3 hours</td>
<td>letter grade</td>
<td>Recommended Preparation: Enroll by Instructor Consent. This course provides specific conditioning, techniques, strategies and instruction in baseball. The course is designed for men of exceptional ability who wish to participate in intercollegiate baseball. The course fulfills the requirement for a physical education activity and meets the state intercollegiate requirement for conditioning in preparation for competition. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>KINIA 2AD</td>
<td>3.0 units</td>
<td>Off-Season Conditioning for Athletes</td>
<td>11.3 hours</td>
<td>letter grade</td>
<td>Formerly KINPF 2AD. This course is designed for any student preparing for intercollegiate athletic competition. The specific physical fitness routines required by the intercollegiate athlete during the off-season will be addressed. The purpose of the course is to improve basic skills through a program of weight training, conditioning, and improved performance, and to prepare the athlete for the upcoming season. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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</table>
Courses of Instruction

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINIA 3AD</td>
<td>3.0</td>
<td>Basketball (Men)</td>
</tr>
<tr>
<td>KINIA 5AD</td>
<td>3.0</td>
<td>Cross Country (Men)</td>
</tr>
<tr>
<td>KINIA 7AD</td>
<td>3.0</td>
<td>Football (Men)</td>
</tr>
<tr>
<td>KINIA 9AD</td>
<td>3.0</td>
<td>Golf (Men)</td>
</tr>
<tr>
<td>KINIA 13AD</td>
<td>3.0</td>
<td>Soccer (Men)</td>
</tr>
<tr>
<td>KINIA 15AD</td>
<td>3.0</td>
<td>Swimming (Men)</td>
</tr>
<tr>
<td>KINIA 17AD</td>
<td>3.0</td>
<td>Tennis (Men)</td>
</tr>
<tr>
<td>KINIA 19AD</td>
<td>3.0</td>
<td>Track &amp; Field (Men)</td>
</tr>
<tr>
<td>KINIA 21AD</td>
<td>3.0</td>
<td>Volleyball (Men)</td>
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**KINIA 3AD 3.0 units**  
**Basketball (Men)**  
11.3 hours laboratory  
Recommended Preparation: Enroll by Instructor Consent  
Grading: letter grade  
This course provides specific conditioning, techniques, strategies and instruction in basketball. The course is designed for men of exceptional ability who wish to participate in intercollegiate, competitive basketball. This course meets the state intercollegiate requirement for conditioning in preparation for competition.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**KINIA 5AD 3.0 units**  
**Cross Country (Men)**  
11.3 hours laboratory  
Recommended Preparation: Enroll by Instructor Consent  
Grading: letter grade  
This course offers instruction in the rules, techniques and strategies of Men’s Cross Country. The course is designed for men of exceptional ability who wish to participate in Intercollegiate Athletics.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**KINIA 7AD 3.0 units**  
**Football (Men)**  
11.3 hours laboratory  
Recommended Preparation: Enroll by Instructor Consent  
Grading: letter grade  
This course provides specific conditioning, techniques, strategies, nutrition for and instruction in football. The course is designed for men of exceptional ability who wish to participate in intercollegiate football. This course meets the health education requirement for Plan B and the physical fitness/wellness requirement for Plan A of the General Education pattern at LBCC.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**KINIA 9AD 3.0 units**  
**Golf (Men)**  
11.3 hours laboratory  
Recommended Preparation: Enroll by Instructor Consent  
Grading: letter grade  
This class is designed for men of exceptional ability who wish to compete in intercollegiate athletics. There will be advanced instruction in the rules, techniques and strategies of golf.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**KINIA 13AD 3.0 units**  
**Soccer (Men)**  
11.3 hours laboratory  
Recommended Preparation: Enroll by Instructor Consent  
Grading: letter grade  
This course provides specific conditioning, techniques, strategies, nutrition for and instruction in soccer. The course is designed for men of exceptional ability who wish to participate in intercollegiate soccer. This course meets the physical fitness/wellness requirement for Plan A of the General Education pattern at LBCC.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**KINIA 15AD 3.0 units**  
**Swimming (Men)**  
11.3 hours laboratory  
Recommended Preparation: Enroll by Instructor Consent  
Grading: letter grade  
This course provides specific conditioning, techniques, strategies and instruction in the rules of swimming. The course is designed for men of exceptional ability who wish to participate with the intercollegiate swimming team.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**KINIA 17AD 3.0 units**  
**Tennis (Men)**  
11.3 hours laboratory  
Recommended Preparation: Enroll by Instructor Consent  
Grading: letter grade  
A diverse program of intercollegiate athletics for men and women of exceptional ability which fulfills the legal requirement for a physical education activity.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**KINIA 19AD 3.0 units**  
**Track & Field (Men)**  
11.3 hours laboratory  
Recommended Preparation: Enroll by Instructor Consent  
Grading: letter grade  
This course offers instruction in the rules, techniques and strategies of Men’s Track & Field. The course is designed for men of exceptional ability who wish to participate in Intercollegiate Athletics.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**KINIA 21AD 3.0 units**  
**Volleyball (Men)**  
11.3 hours laboratory  
Recommended Preparation: Enroll by Instructor Consent  
Grading: letter grade  
This course provides specific conditioning, techniques and strategies in the instruction of volleyball. The course is designed for men of exceptional ability who wish to participate in intercollegiate volleyball. This course meets the health education requirement for Plan B and the physical fitness/wellness requirement for Plan A of the General Education pattern at LBCC.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
KINIA 23AD  3.0 units
Water Polo (Men)
11.3 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade
This course offers instruction in the rules, techniques and strategies of water polo. The course is designed for men of exceptional ability who wish to participate in intercollegiate athletics.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINIA 27AD  3.0 units
Basketball (Women)
11.3 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade
This course offers instruction in the rules, techniques and strategies of Women’s Basketball. The course is designed for women of exceptional ability who wish to participate in Intercollegiate Athletics.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINIA 29AD  3.0 units
Cross Country (Women)
11.3 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade
This course is designed to provide advanced preparatory instruction in Women’s Intercollegiate Cross Country. The students will have multiple opportunities to apply running strategies to actual racing situations. Running performance will be assessed and evaluated by the coach in order to improve performance. Try outs, out-of-season conditioning and training will be integral components of the class.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINIA 31AD  3.0 units
Golf (Women)
11.3 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade
This class is offered as a part of a diverse program of intercollegiate athletics for women of exceptional ability which fulfills the legal requirement for physical education activity.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINIA 35AD  3.0 units
Soccer (Women)
11.3 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade
This course provides specific conditioning, techniques, strategies, nutrition for and instruction in soccer. The course is designed for women of exceptional ability who wish to participate in intercollegiate soccer. This course meets the health education requirement for Plan B and the physical fitness/wellness requirement for Plan A of the General Education pattern at LBCC.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINIA 37AD  3.0 units
Softball (Women)
11.3 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade
This course offers instruction in the rules, techniques and strategies of softball (fast-pitch). The course is designed for women of exceptional ability who wish to participate in intercollegiate athletics.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINIA 39AD  3.0 units
Swimming (Women)
11.3 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade
This course offers instruction in the rules, techniques and strategies of competitive swimming. The course is designed for women of exceptional ability that wish to participate in intercollegiate athletics.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINIA 41AD  3.0 units
Tennis (Women)
11.3 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade
This course offers instruction in the rules, techniques and strategies of tennis. The course is designed for women of exceptional ability who wish to participate in intercollegiate athletics.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINIA 43AD  3.0 units
Track & Field (Women)
11.3 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade
This course offers instruction in the rules, techniques and strategies of Women’s Track & Field. The course is designed for women of exceptional ability who wish to participate in Intercollegiate Athletics.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINIA 45AD  3.0 units
Volleyball (Women)
11.3 hours laboratory
Recommended Preparation: Enroll by Instructor Consent
Grading: letter grade
This course is designed to provide the instruction and training for intercollegiate competition in women’s volleyball for students of exceptional ability who wish to participate at this level of competition.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
<table>
<thead>
<tr>
<th>KINIA  47AD</th>
<th>3.0 units</th>
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<tbody>
<tr>
<td>Water Polo (Women)</td>
<td>11.3 hours laboratory</td>
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<tr>
<td>Recommended Preparation: Enroll by Instructor Consent</td>
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<tr>
<td>Grading: letter grade</td>
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<tr>
<td>This course offers instruction in the rules, techniques, and strategies of water polo. The course is designed for women of exceptional ability who wish to participate in intercollegiate athletics.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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**KINESIOLOGY, PHYSICAL FITNESS (KINPF)**

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<thead>
<tr>
<th>KINPF  3</th>
<th>1.0 unit</th>
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<tbody>
<tr>
<td>Aqua Calisthenics</td>
<td>3.4 hours laboratory</td>
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<td>Grading: letter grade</td>
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<tr>
<td>Formerly KINPF 3AD. This course involves instruction and practice in water aerobics exercise. Emphasis will be placed on toning, trimming and firming skeletal muscles through water resistance exercises in shallow water. Increasing flexibility, strengthening the cardiovascular system, and improving the respiratory system will also be stressed. Students do not need to have swim skills for this course.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<th>KINPF  4</th>
<th>1.0 unit</th>
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<tbody>
<tr>
<td>Deep Water Aerobics</td>
<td>3.4 hours laboratory</td>
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<td>Grading: letter grade</td>
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<tr>
<td>Formerly KINPF 4AD. This course will provide instruction in the development of the fundamental elements of fitness through the application of deep water resistance and buoyancy. Progressive instruction includes the development of increasingly more strenuous exercises for cardiorespiratory fitness, muscular strength, endurance and flexibility.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<th>KINPF  5</th>
<th>0.5 unit</th>
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<tbody>
<tr>
<td>Dance Aerobics</td>
<td>2.3 hours laboratory</td>
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<td>Grading: letter grade</td>
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<tr>
<td>Formerly KINPF 5AD. This course is designed for all students who want to perform fitness exercises through the use of dance routines in an effort to enhance flexibility while emphasizing development of strength and endurance.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<thead>
<tr>
<th>KINPF  6</th>
<th>1.0 unit</th>
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<tbody>
<tr>
<td>Dance Aerobics</td>
<td>3.4 hours laboratory</td>
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<td>Grading: letter grade</td>
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<tr>
<td>Formerly KINPF 6AD. The course will cover the development of strength, muscular endurance, cardiovascular endurance, flexibility, coordination and balance. This will be accomplished by utilizing various cross training activities, calisthenics and dance aerobic movement.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<th>KINPF  8</th>
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<tbody>
<tr>
<td>Circuit Weight Training</td>
<td>3.4 hours laboratory</td>
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<td>Grading: letter grade</td>
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<tr>
<td>Formerly KINPF 8AD. In this course, students receive cardiovascular and strength fitness training in a circuit weight training setting. This course combines the muscle-building benefits of resistance training with a cardiovascular boost to help increase metabolism, build muscle and allow for complete body conditioning.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<th>KINPF  8B</th>
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<tbody>
<tr>
<td>Circuit Weight Training</td>
<td>3.4 hours laboratory</td>
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<tr>
<td>Recommended Preparation: KINPF 8.</td>
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<tr>
<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>This course provides continued cardiovascular and strength fitness training in a circuit weight training setting. This course combines focus on the muscle-building benefits of resistance training with a cardiovascular boost to help increase metabolism, build muscle and allow for complete body conditioning.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<th>KINPF 10</th>
<th>1.0 unit</th>
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<tbody>
<tr>
<td>Stretch &amp; Relaxation</td>
<td>3.4 hours laboratory</td>
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<td>Grading: letter grade</td>
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<tr>
<td>Formerly KINPF 10AD. This course emphasizes the development of flexibility in muscles and joints to prevent injury and to improve body alignment and posture. Relaxation and stretching techniques will be used to improve general fitness and reduce stress.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tr>
<td>Stretch &amp; Relaxation</td>
<td>3.4 hours laboratory</td>
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<td>Recommended Preparation: KINPF 10.</td>
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<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>This course provides the continued study and development of flexibility in muscles and joints to prevent injury and to improve body alignment and posture. Relaxation and stretching techniques will be used to improve general fitness and reduce stress.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<th>KINPF 12</th>
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<tr>
<td>Core Conditioning</td>
<td>3.4 hours laboratory</td>
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<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>Formerly PEPF 12AD. This course is an introduction to conditioning through the understanding and practice of exercise using the anatomical core. Strength, posture, agility, and flexibility will be improved through the usage of Rip Training, Core Barre, Mat and Stability Ball Pilates training.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<td>KINPF 14</td>
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Courses of Instruction
Courses of Instruction

training at the intermediate level. Assessment testing will be done to determine levels of performance within each component of fitness.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINPF 23 1.0 unit
Cycling Conditioning
3.4 hours laboratory
Grading: letter grade or pass/no pass
Formerly PEPF 23AD. This course is an introduction to Physical Fitness through indoor cycling. The cycling program is an individually paced, noncompetitive, group training program designed for all riders and all fitness levels. Cycling is an exercise performed on a stationary bicycle and is performed to music. The course is open to anyone who is interested in developing muscular endurance, improved cardiovascular endurance and body composition.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINPF 24 1.0 unit
Cardio Cross Fit
3.4 hours laboratory
Recommended Preparation: KINPF 22
Grading: letter grade
Formerly PEPF 24AD. This course encompasses the development of cardiovascular capacity, core strength (muscle strength and endurance), flexibility, coordination and balance. A variety of aerobic and anaerobic training techniques as well as body weight resistance exercises will be presented in a boot camp format.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

KINPF 41 0.5 unit
Swimming Fitness
2.3 hours laboratory
Grading: letter grade
Formerly KINPF 41AD. Swim fitness is part of the physical fitness program. The program consists of swimming and related circuit training exercises.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINPF 42 1.0 unit
Swimming Fitness
3.4 hours laboratory
Grading: letter grade
Formerly KINPF 42AD. Swim Fitness is a pool based physical fitness activity. The course consists of swimming and related circuit training exercises performed primarily in the water, but also on land. Topics will include cardio-respiratory training, strength training, interval training, cross training and program design all as applied to swim fitness.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINPF 48 1.0 unit
Swim Fitness/Polo
3.4 hours laboratory
Grading: letter grade
Formerly KINPF 48AD. This course provides conditioning and instruction in the rules, techniques and strategies of water polo. The course is designed for student-athletes who are participating with the intercollegiate water polo teams.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINPF 53 1.0 unit
Power Lifting
3.4 hours laboratory
Recommended Preparation: KINPF 54
Grading: letter grade
Formerly KINPF 53AD. The course will provide students the opportunity to learn the techniques of the three Power Lifts and two Olympic Lifts. The class is co-educational but is designed for students who have an interest in this specialized weight lifting genre. Students will be instructed how to perform the bench press, squat, and dead lift which considered the three base Power Lifts. Proper technique will be a major emphasis with a high importance placed on students lifting weight totals that are within a safe capacity of their individual limits. In addition, the performance of the two Olympic Lifts, the snatch and the clean and jerk will be covered. Students will work cooperatively in small groups and will be placed together according to each’s level of expertise and strength capacity.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINPF 53B 1.0 unit
Power Lifting
3.4 hours laboratory
Recommended Preparation: KINPF 53.
Grading: letter grade or pass/no pass
This course provides continued study of and practice in power lifting. Topics that will be examined are bench press, squat, and dead lift with proper technique as a major emphasis.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINPF 54 1.0 unit
Weight Training
3.4 hours laboratory
Grading: letter grade
Formerly KINPF 54AD. This weight training course is designed to present a variety of lifting techniques. Students will use these techniques and their understanding of basic anatomy to increase strength and flexibility to reach their weight lifting goals.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINPF 54B 1.0 unit
Weight Training
3.4 hours laboratory
Recommended Preparation: KINPF 54.
Grading: letter grade or pass/no pass
This course continues to provide study and practice in a variety of weight lifting techniques. Students will use these techniques and their understanding of basic anatomy to continue focus on increasing strength and flexibility to reach their weight lifting goals.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.
Courses of Instruction

KINPP 81  1.0 unit
Fitness and Wellness Center
0.6 hour lecture, 1.7 hours laboratory
Grading: letter grade
Formerly KINPF 81AD. Selected physical fitness tests are administered before, during and after exercise programs to improve endurance, strength, and joint mobility. Lectures focus on individualized goals, continuous self-evaluation, safe and sane diet and exercise, scientific information versus fallacy, and wellness lifestyles that reduce health risks.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINPP 84A  2.0 units
Fitness and Wellness
1.1 hours lecture, 3.4 hours laboratory
Grading: letter grade or pass/no pass
Formerly KINPF 84AD. Physical fitness tests are administered before, during and after exercise programs to improve reserve capacity in endurance, muscular strength and joint mobility. Lectures and assignments focus on nutrition and diet, exercise, and modifications of lifestyle to enhance the quality of life and reduce health risks.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINPP 84B  2.0 units
Fitness & Wellness
1.1 hours lecture, 3.4 hours laboratory
Recommended Preparation: KINPF 84.
Grading: letter grade or pass/no pass
This course provides for the continued study of and practice in Fitness & Wellness techniques and issues. Selected physical fitness tests are administered before, during and after exercise programs to improve endurance, strength, and joint mobility. Lectures and assignments focus on exercise and modifications of lifestyle to enhance the quality of life and reduce health risks.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINPP 681  0.0 unit
Human Performance Laboratory
0.6 hour lecture, 1.7 hours laboratory
Grading: LBCC Non-Graded Course
Formerly PEPF 681. This course is a physical fitness course that is designed for cardiorespiratory, strength and flexibility exercises within a prescribed fitness program. This course is available to faculty/staff of Long Beach City College.

KINESIOLOGY, PROFESSIONAL PREPARATION(KINPP)

KINPP 1  3.0 units
Introduction to Kinesiology
3.4 hours lecture
Grading: letter grade
This course is a survey of the discipline of Kinesiology, including knowledge of the nature and importance of performing and studying physical activity. It includes an analysis of the lifelong importance of physical activity in daily life. The course surveys the general knowledge base of the discipline as reflected in the major subdisciplines and reviews selected ideas in the historical, philosophical, sociological, physical, and psychological domains within human movement. In addition, the course introduces students to the general characteristics of the field’s professions, to specific types of physical activity professions typically pursued by Kinesiology students and assists them in making some early career decisions.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

KINPP 4  3.0 units
Lifetime Wellness Principles
3.4 hours lecture
Grading: letter grade
The course focuses on holistic and inter-related dimensions of wellness and explores the choices available that may encourage and enhance the quality of life. The dimensions of wellness include: physical, social, emotional, occupational, intellectual, environmental, and spiritual. The course provides an opportunity for students to learn positive life skills and expand self-awareness. The course promotes personal, family and community wellness.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

KINPP 5  3.0 units
Sports Appreciation
3.4 hours lecture
Grading: letter grade
This class will explore sports and its role in society. Topics will include a survey of a variety of sports and spectator appreciation. The class will explore careers in amateur and professional sports organizations.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

KINPP 7  3.0 units
Intro to Community Recreation
3.4 hours lecture
Grading: letter grade
This course is designed for recreation majors and non-majors. This is a general orientation to the field of recreation and parks services. Included is a history of the development of the recreation profession, and a survey of recreation and leisure services. The course also includes a description and interpretation of recreation as a form of community service, and the nature, scope, and significance of leisure and recreation as a social force in contemporary society. The role of the professional leader in a variety of settings is emphasized.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

KINPP 8  3.0 units
Stress Management through Physical Activity
3.4 hours lecture
Grading: letter grade or pass/no pass
This course addresses many facets of stress with an emphasis on physical activity as a coping strategy. Many training methods and activities are taught along with the practice of relaxation techniques. The physiology of stress, disease and stress, and performance anxiety are also within the scope of this course.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
### Courses of Instruction

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
<th>Transfer Status</th>
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</thead>
</table>
| KINPP 10     | 3.0   | Prevention & Care of Athletic Injuries  
3.4 hours lecture, 0.6 hour laboratory  
Grading: letter grade  
This course introduces the basic concepts of athletic training, including instruction for prevention, recognition, management and treatment of common injuries in an active population. The skills of basic strapping, bracing, padding and taping for the prevention and support of injuries will be presented and practiced in class.  
_Transfer Status: Transferable to UC, CSU; see counselor for limitations._ |                                                                                                     |
| KINPP 12     | 2.0   | Techniques of Physical Fitness  
2.3 hours lecture  
Grading: letter grade or pass/no pass  
Formerly KINPP 83AD. This course provides methods and concepts of lifetime physical fitness and nutritional understanding. Analyses of instruction, practice, and practical techniques for evaluating one’s own physical fitness status will be covered. This course is designed to explore approaches for practice and evaluation of physical fitness status for reserve capacity in cardiovascular endurance, local muscular endurance, muscular strength and joint mobility.  
_Transfer Status: Transferable to UC, CSU; see counselor for limitations._ |                                                                                                     |
| KINPP 13     | 1.0   | Dance Aerobics-Professional Preparation  
0.6 hour lecture, 2.3 hours laboratory  
Grading: letter grade  
This course is designed to prepare students to teach dance aerobics. The teaching progression for dance aerobics, music selection and lesson planning are topics covered in this course.  
_Transfer Status: Transferable to UC, CSU; see counselor for limitations._ |                                                                                                     |
| KINPP 14     | 3.0   | Theory of Athletic Coaching  
3.4 hours lecture  
Grading: letter grade  
This course is an introduction to the profession of athletic coaching. With emphasis on a comprehensive approach to the art and science of coaching, the development of a coaching philosophy will be explored and validated by a greater understanding of the psychology, physiology and management of sport. Areas of concentration will include, coaching objectives and style, communication and motivation skills, training principles and techniques and team management strategies.  
_Transfer Status: Transferable to CSU Only; see counselor for limitations._ |                                                                                                     |
| KINPP 15     | 3.0   | Sports Officiating (Fall)  
2.3 hours lecture, 3.4 hours laboratory  
Grading: letter grade  
The course provides theory and practice in officiating intramural, college, and high school Fall/Winter sports. This course is open to all and is designed for students seeking professional preparation to be able to teach, coach and/or officiate fall/winter sports. Students will participate as actual game officials during intramural competition.  
_Transfer Status: Transferable to UC, CSU; see counselor for limitations._ |                                                                                                     |
| KINPP 17     | 3.0   | Sports Officiating (Spring)  
2.3 hours lecture, 3.4 hours laboratory  
Grading: letter grade  
The course provides theory and practice in officiating intramural college and high school Winter/Spring sports. This course is open to all and is designed for students seeking professional preparation to be able to officiate Winter/Spring sports. Students will participate as actual game officials during intramural competition.  
_Transfer Status: Transferable to UC, CSU; see counselor for limitations._ |                                                                                                     |
| KINPP 19     | 2.0   | Theory of Football  
1.1 hours lecture, 3.4 hours laboratory  
Grading: letter grade  
This course is open to all students seeking professional preparation in elementary and intermediate instruction and practice in scouting, film analysis, use of equipment and safety procedures for football. This course is an introduction to the organization and administration of youth football programs.  
_Transfer Status: Transferable to UC, CSU; see counselor for limitations._ |                                                                                                     |
| KINPP 23     | 3.0   | First Aid and Safety  
3.4 hours lecture  
Grading: letter grade  
Formerly PEPP 23. This course will introduce students to the techniques and the principles involved in rendering prompt and necessary emergency care to the injured or ill. Instruction will cover core material for breathing and cardiac emergencies, sudden illnesses, soft tissue injuries, environmental incidents, musculoskeletal injuries, and other special circumstances. Students will practice the skills and procedures for cardiopulmonary resuscitation (CPR), rescue breathing, and the proper use of an Automatic External Defibrillator (AED). With the successful completion of this course students will have the opportunity to become certified in the Standard First Aid and Personal Safety and Cardiopulmonary Resuscitation (CPR) Certificates granted by the American Red Cross.  
_Transfer Status: Transferable to UC, CSU; see counselor for limitations._ |                                                                                                     |
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<tr>
<th>Course Code</th>
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<tr>
<td>KINPP 70A</td>
<td>3.0</td>
<td>Exercise Science &amp; Fitness Assessment</td>
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<td>3.4</td>
<td>Grading: letter grade</td>
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<td>This course is designed to provide the theoretical knowledge necessary to prepare for the American Council on Exercise National Personal Training Certification exam. Topics include exercise physiology, human anatomy, applied kinesiology, basic nutrition, health screening, the theory of fitness assessment, and exercise adaptation. This course fulfills half of the necessary coursework needed to prepare for the ACE certification. (KINPP 70B)</td>
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<td>Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>KINPP 70B</td>
<td>3.0</td>
<td>Fitness Program Design &amp; Instruction</td>
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<td>Grading: letter grade</td>
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<td>This course is designed to provide the student with the theoretical knowledge and practical skills needed to prepare for the American Council on Exercise National Personal Training Certification Examination. Topics will include application of the applied sciences, program design and implementation of integrated fitness training for healthy adults and special populations, communication, health psychology, teaching techniques, injury prevention and safety, professional responsibilities, and business fundamentals. This course fulfills half of the necessary coursework needed to prepare for the ACE certification. (KINPP 70A)</td>
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<td>Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>KINPP 200</td>
<td>3.0</td>
<td>Introduction to Therapeutic Massage</td>
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<td>Grading: letter grade</td>
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<td>This foundation course introduces students to the history, science and practice of massage therapy. This course provides students theoretical, practical and preliminary experience in massage therapy. Topics include basic anatomy and physiology as they relate to massage therapy, as well as professional standards expected of massage therapists. Students practice giving massages using beginning strokes and proper sanitation, hygiene, and body mechanics.</td>
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<tr>
<td>KINPP 201</td>
<td>3.0</td>
<td>Therapeutic Massage II</td>
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<td>2.3</td>
<td>Grading: letter grade</td>
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<td>This course focuses on massage applications with therapeutic and rehabilitative techniques. Students will analyze and evaluate anatomical structures and assess common pathology. The course includes intermediate massage theory, methods and procedures of soft tissue techniques, and contraindications. Applications introduced include deep tissue, postural realignment, craniosacral motion and aromatherapy. Special attention is given to palpatory skills.</td>
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<tr>
<td>KINPP 203</td>
<td>3.0</td>
<td>Kines and Musculoskeletal Foundations</td>
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<td>Grading: letter grade</td>
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<td>This course approaches the study of the human body primarily from a functional perspective. There will be emphasis on the relationship between the muscles and the bone as they relate to human movement. This class is designed for Kinesiology students, massage therapists, personal trainers, coaches and others interested in the overall health of individuals.</td>
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<tr>
<td>KINPP 205</td>
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<td>Integrative Therapeutic Massage</td>
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<td>2.8</td>
<td>Grading: letter grade</td>
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<td>This course covers traditional Chinese medicine and massage for special populations. Theories of mind/body connection drawn from recent scientific research will be incorporated with Shiatsu, Tai Chi, Tuina, acupressure and other Asian bodywork therapies. Students will develop treatment plans and perform indicated techniques for selected special populations, such as prenatal, geriatric, HIV/AIDS, and cancer.</td>
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<td>KINPP 207</td>
<td>4.0</td>
<td>Massage and Bodywork Clinical Practicum</td>
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<td>Grading: letter grade</td>
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<td>This course provides the clinical practice for massage therapy. Students receive the practical experience of giving a professional massage, while working with the public, under supervision of the instructor. Students will focus on advanced therapeutic massage techniques, business practices, massage marketing, ethics, and clinic procedures for the massage experience.</td>
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<tr>
<td>KINPP 211</td>
<td>1.0</td>
<td>Chair Massage</td>
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<td>Grading: letter grade</td>
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<td>This course will focus on the techniques and practice of chair massage. Topics include physiological effects, related anatomy, contraindications, body mechanics, ethics, hygiene and sanitation standards.</td>
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<tr>
<td>KINPP 213</td>
<td>2.0</td>
<td>Sports Massage</td>
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<td>1.1</td>
<td>Grading: letter grade</td>
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<td>This course specifically covers massage techniques and evaluation procedures for providing massage to athletes. Focus will be on anatomy and sport as it relates to muscle movement, common sports injuries, basic postural analysis, contraindications, and sport massage techniques.</td>
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<tr>
<td>KINPP 230</td>
<td>3.0</td>
<td>Fieldwork Observation in Kinesiology</td>
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<td>2.3</td>
<td>Grading: letter grade</td>
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<td>This course is designed to provide students in the Kinesiology Major with practical experience in the field of kinesiology. Students will be expected to participate in a minimum number of hours in a supervised fieldwork experience.</td>
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</table>
setting. Emphasis is placed on, but not limited to, client assessment, communication skills, program design, teaching strategies, self-marketing and professional responsibility and liability.

**KINPP 233 3.0 units**

**Techniques of Strength and Conditioning**
3.4 hours lecture
Grading: letter grade

This course is designed for the student in the Personal Trainer Certificate Program, planning to study and teach movement as it relates to exercise under both normal and injured conditions. Students learn the practical implications of bone, joint, nerve, and muscle actions. Emphasis is placed on applying body alignment, range of motion, stabilization, and acceleration principles to the development of safe exercise programs.

**LEARNING AND ACADEMIC RESOURCES (LEARN)**

**LEARN 11 3.0 units**

**Learning and Academic Strategies**
3.4 hours lecture, 0.2 hour supplemental learning
Grading: letter grade or pass/no pass

This is a comprehensive learning and academic strategies success course designed to assist students in developing an understanding of learning theories and academic principles, concepts, and strategies, along with their direct and practical application, with the goal of achieving or maximizing college success. In addition, this course provides an exploration of the psychological, social and physical factors that influence success in college and in life. In order to assist students with the challenges of the course content, students are required to complete 3 hours of Supplemental Learning Assistance activities in a Multidisciplinary Success Center over the course of the semester.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**LEARN 11H 3.0 units**

**Honors Learning and Academic Strategies**
3.4 hours lecture, 0.2 hour supplemental learning
Prerequisite: Qualification for the Honors Program
Grading: pass/no pass

This is a comprehensive learning and academic strategies success course designed to assist students in developing an understanding of learning theories and academic principles, concepts, and strategies, along with their direct and practical application, with the goal of achieving or maximizing college success. In addition, this course provides an exploration of the psychological, social and physical factors that influence success in college and in life. In order to assist students with the challenges of the course content, students are required to complete 3 hours of Supplemental Learning Assistance activities in a Multidisciplinary Success Center over the course of the semester.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

**LEARN 11M1 0.5 unit**

**College Test Taking**
0.6 hour lecture
Grading: pass/no pass

This course is designed to assist the student in acquiring confidence and competency in understanding the principles of test development and application of test-taking strategies.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

**LEARN 610 0.0 unit**

**Basic Study Skills Laboratory**
3.4 hours laboratory
Grading: LBCC Non-Graded Course

This is a non-credit course in basic study skills. This course covers a variety of basic learning and study skills including note-taking, test-taking, memory enhancement and time management. Participation schedule will vary.

**LEARN 650 0.0 unit**

**Supervised Tutoring**
1.1 hours laboratory
Corequisite: Concurrent enrollment in an LBCC course.
Grading: LBCC Non-Graded Course

This course is designed to provide students with individual and small-group tutoring in specific subject areas to improve academic performance. Tutoring appointments will be scheduled, per the guidelines established by the specific location at which tutoring is offered, on a recurring, as-needed, and/or drop-in basis.

**LEARN 811 1.0 unit**

**Introduction to Study Skills**
1.1 hours lecture
Grading: pass/no pass

This is an introductory learning strategies and techniques course designed to assist students in understanding basic study skills and information along with their direct and practical application in preparation for college-level coursework. The goal is for students to enhance their academic effectiveness. Course topics will include: college expectations, time management, memory and concentration, study reading, listening and note-taking, and test-taking.

**LIBRARY (LIB)**

**LIB 1 2.0 units**

**Library and Information Resources**
2.3 hours lecture
Grading: letter grade or pass/no pass

This course teaches basic college-level research skills necessary for effective use of traditional and new information resources. Research strategies and evaluation of information resources are emphasized. The course covers the different levels, types, and formats of information, including the Internet.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.
### Courses of Instruction

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Hours Lecture</th>
<th>Hours Laboratory</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>LIB 2</td>
<td>Web Databases</td>
<td>1.0</td>
<td>1.1</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>This course is a hands-on introduction to online</td>
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<td>databases and their structures. It emphasizes</td>
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<td>evaluation of information, search strategies, and</td>
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<td>search techniques used to effectively access and</td>
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<td>retrieve information in the online environment.</td>
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<td>This course will be beneficial for students who</td>
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<td>wish to develop vital information searching and</td>
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<td>retrieval skills for both academic and professional</td>
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<td>purposes.</td>
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<td>counselor for limitations.</td>
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<tr>
<td>LIB 3</td>
<td>Information Competency</td>
<td>3.0</td>
<td>3.4</td>
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<td>This course is designed to help students become</td>
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<td>information-literate citizens in the seamless and</td>
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<td>global information world. This course encompasses</td>
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<td>library literacy, information technology literacy,</td>
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<td>and Internet literacy. It encourages thought</td>
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<td>transformation, intelligent reasoning, research</td>
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<td>skills, and a new understanding of the world,</td>
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<td>including an appreciation of diversity. The course</td>
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<td>has a well-balanced structure in practices and</td>
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<td>theories with lectures, active interaction and</td>
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<td>participation in class and online, computer lab</td>
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<td>activities, and written research assignments.</td>
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<td>Transfer Status: Transferable to UC, CSU; see</td>
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<td>counselor for limitations.</td>
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<td>LIB 201</td>
<td>Introduction to Cataloging</td>
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<td>3.4</td>
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<td>Prerequisite: LIB 3</td>
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<td>This course is designed to teach students the</td>
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<td>valuable skills necessary to become qualified</td>
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<td>technicians. Topics will include: cataloging</td>
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<td>principles and procedures including descriptive</td>
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<td>and subject cataloging, classification systems,</td>
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<td>Machine Readable Cataloging (MARC) formats,</td>
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<td>bibliographic utilities, authority and bibliographic</td>
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<td>verification and control.</td>
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<td>LIB 202</td>
<td>Introduction to Access Services</td>
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<td>interlibrary loan, reserve collections, copyright</td>
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<td>laws, statistical design and compilation.</td>
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<td>LIB 203</td>
<td>Introduction to Acquisitions</td>
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<td>library technicians. This course focuses on the</td>
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<td>goals and functions of acquisitions and the topics</td>
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<td>materials, the financial management of materials</td>
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<td>budgets, vendors, and ethical considerations.</td>
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<td>Visitation to other libraries or information</td>
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<td>research centers are required.</td>
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<td>LIB 204</td>
<td>Introduction to Reference Services</td>
<td>3.0</td>
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<td>Grading: letter grade or pass/no pass</td>
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<td>Prerequisite: LIB 3</td>
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<td>This course is designed to teach students the</td>
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<td>library technicians. This course introduces</td>
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<td>students to widely used print, non-print, electronic</td>
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<td>and online sources in a variety of settings,</td>
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<td>and develops question-negotiation reference</td>
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<td>skills and search strategies. The topics will</td>
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<td>include the information needs of library users</td>
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<td>and the students will be empowered to function</td>
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<td>competently in the Information Age.</td>
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### LINGUISTICS (LING)

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Hours Lecture</th>
<th>Notes</th>
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<tbody>
<tr>
<td>LING 1</td>
<td>Linguistics 1</td>
<td>3.0</td>
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<td>Grading: letter grade</td>
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<td>Recommended Preparation: ENGL 105 or ESL 34</td>
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<td>Transfer Status: Transferable to CSU Only; see</td>
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<td>counselor for limitations.</td>
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### MATHEMATICS (MATH)

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Hours Lecture</th>
<th>Notes</th>
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<tr>
<td>MATH 27</td>
<td>Probability and Statistics for Elementary Teachers</td>
<td>3.0</td>
<td>3.4</td>
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<td>Grading: letter grade</td>
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<td>Recommended Preparation: MATH 130, 130B, or one</td>
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<td>year of high school intermediate algebra with a</td>
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<td>semester grade, and MATH 120 or one year high</td>
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<td>school geometry or Qualification through the</td>
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<td>LBCC assessment process.</td>
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<td>Transfer Status: Transferable to UC, CSU; see</td>
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<td>counselor for limitations.</td>
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<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Hours Lecture</th>
<th>Notes</th>
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<tbody>
<tr>
<td>MATH 28</td>
<td>Mathematics for Elementary Teaching I</td>
<td>3.0</td>
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<td>Grading: letter grade</td>
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<td>Recommended Preparation: Eligibility for ENGL 1</td>
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<td>Transfer Status: Transferable to CSU Only; see</td>
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<td>counselor for limitations.</td>
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Courses of Instruction

sets, numeration systems, number theory and models and algorithms for operations with whole numbers, integers, rational numbers and decimals. Writing is emphasized throughout the course.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MATH 29  3.0 units
Math for Elementary Teaching II
3.4 hours lecture, 1.1 hours laboratory
Prerequisite: MATH 28 and 120 or one year of high school geometry.
Grading: letter grade
This course is designed for prospective elementary teachers. Topics include basic geometric vocabulary and notation, constructions, congruence, similarity, measurement, the Pythagorean Theorem, motion geometry and tessellations. The problem solving process is emphasized throughout the course. The course incorporates group activities and exploration of topics with manipulatives. Writing is emphasized throughout the course.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MATH 37  3.0 units
Finite Mathematics
3.4 hours lecture
Prerequisite: MATH 130, 130B or one year high school intermediate algebra with a grade of B or better as reflected by the second semester grade or qualification through the LBCC assessment process for Math.
Grading: letter grade
This course is a study of systems of linear equations and inequalities, matrices, matrix applications, sets and counting, probability, and statistics.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MATH 37H  3.0 units
Honors Finite Mathematics
3.4 hours lecture
Prerequisite: MATH 130, 130B or high school intermediate algebra with a grade of B or better as reflected by the second semester grade, or qualification through the LBCC assessment process for Math, and qualification for the Honors Program.
Grading: letter grade
This course is a study of linear equations, systems of linear equations and inequalities, matrices, matrix applications, sets and counting, probability, and statistics.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MATH 40  3.0 units
Trigonometry
3.4 hours lecture
Prerequisite: MATH 130, 130B, or one year of high school intermediate algebra with a grade of B or better as reflected by the second semester grade, and MATH 120 or one year high school geometry or Qualification through the LBCC assessment process.
Grading: letter grade
The topics covered in this course include right triangle trigonometry, circular functions, inverse functions, identities and formulas, graphing, trigonometric equations, the Law of Sines and the Law of Cosines, and complex numbers and polar coordinates.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

MATH 45  4.0 units
College Algebra
4.5 hours lecture
Prerequisite: MATH 130, 130B or one year high school intermediate algebra with a grade of B or better as reflected by the second semester grade or qualification through the LBCC assessment process for Math.
Grading: letter grade
This course covers advanced algebra topics, including linear, quadratic, polynomial, exponential and logarithmic functions; graphs of functions; inverse functions; systems of equations and inequalities; the Binomial Theorem; and conics. A graphing utility is required for this course. Students preparing for MATH 60 should take MATH 50 instead. This course is not open for credit to students registered in or with credit in MATH 50.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MATH 47  3.0 units
Calculus for Business
3.4 hours lecture
Prerequisite: MATH 45 or 50
Grading: letter grade or pass/no pass
This course is a study of differentiation of functions of one and several variables, optimization methods, integration of functions of one variable, exponential and logarithmic functions. This course will be appropriate for students who wish to pursue a career in business and economics.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MATH 50  5.0 units
Precalculus Math
5.6 hours lecture
Prerequisite: MATH 28 and 120 or one year of high school geometry and topics from analytic geometry.
Grading: letter grade
This course covers advanced algebra topics, including linear, quadratic, polynomial, exponential and logarithmic functions; graphs of functions; inverse functions; systems of equations and inequalities; the Binomial Theorem; and conics. A graphing utility is required for this course. Students preparing for MATH 60 should take MATH 50 instead. This course is not open for credit to students registered in or with credit in MATH 50.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MATH 50H  5.0 units
Honors Precalculus
5.6 hours lecture
Prerequisite: MATH 40 or Qualification through the LBCC assessment process for Math.
Grading: letter grade
This course serves as a preparation for calculus. The topics covered include a review of algebra; polynomial, rational, exponential, logarithmic and trigonometric functions; applications of trigonometry including complex numbers and vectors; systems of equations and inequalities including matrices; sequences and series; and topics from analytic geometry.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
and topics from analytic geometry. Eligibility for the Honors Program is required for enrollment.

Transfer Status: Transferable to CSU Only; see counselor for limitations.

**MATH 55**

Discrete Mathematics

4.0 units

4.5 hours lecture

Prerequisite: MATH 50 or a high school precalculus with a grade of B or better as reflected by the second semester grade.

Recommended Preparation: Knowledge of Java or CBIS 14.

Grading: letter grade

This is a one semester course in discrete math, intended for computer science related disciplines. The topics covered include logic, truth tables, set theory, techniques of proofs, recursive definitions, combinatorics, probability, and statistics.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**MATH 60**

First Calculus Course

5.0 units

5.6 hours lecture

Prerequisite: MATH 50 or one year high school precalculus with a grade of B or better as reflected by the second semester grade or Qualification through the LBCC assessment process for Math.

Grading: letter grade

Topics covered in this first semester calculus course include limits; differentiation rules for all basic functions, including exponential, logarithmic and inverse trigonometric functions; applications of differentiation including optimization problems, l’Hospital’s Rule, and graphing; definite and indefinite integrals; and applications of integrals, including areas between curves, volumes, and work problems.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**MATH 60H**

Honors First Calculus Course

5.0 units

5.6 hours lecture

Prerequisite: MATH 50 or one year high school precalculus with a grade of B or better as reflected by the second semester grade or Qualification through the LBCC assessment process for Math & Qualification for the Honors program.

Grading: letter grade

Topics covered in this first semester calculus course include limits; differentiation rules for all basic functions, including exponential, logarithmic and inverse trigonometric functions; applications of differentiation including optimization problems, l’Hospital’s Rule, and graphing; definite and indefinite integrals; and applications of integrals, including areas between curves, volumes, and work problems.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**MATH 70**

Second Calculus Course

5.0 units

5.6 hours lecture

Prerequisite: MATH 60

Grading: letter grade

This course is the second in the calculus sequence. Topics include Integration Techniques, Improper Integrals, Applications of Integration, Differential Equations, Parametric Equations, Polar Graphs, Sequences and Series.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**MATH 70H**

Honors Second Calculus Course

5.0 units

5.6 hours lecture

Prerequisite: MATH 60 and Qualification for the Honors program.

Grading: letter grade

This course is the second in the calculus sequence. Topics include Differential Equations, Applications of Integration, Integration Techniques, Improper Integrals, Sequences and Series, Parametric Equations and Polar Graphs.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**MATH 80**

Third Calculus Course

5.0 units

5.6 hours lecture

Prerequisite: MATH 70

Grading: letter grade

This course serves as the third course in the calculus sequence. Topics include vectors and the geometry of space, vector functions, partial derivatives, multiple integrals and vector calculus.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**MATH 84**

Intro Differential Eqns and Linear Alg

5.0 units

5.6 hours lecture, 1.1 hours laboratory

Prerequisite: MATH 80

Grading: letter grade

This course is an introduction to the solutions of ordinary differential equations and their relationship to linear algebra. Topics include systems of linear equations, matrix algebra, determinants, vector spaces, linear transformations and linear second order differential equations. Other topics include power series solutions, numerical methods, Laplace transforms, eigenvalues, eigenvectors and systems of linear differential equations and applications. This course also has a lab component in which students use computers to complete projects related to the content.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**MATH 110**

First Course in Algebra

5.0 units

5.6 hours lecture, 0.3 hour supplemental learning

Prerequisite: Qualification through the LBCC assessment process for Math or MATH 815.

Recommended Preparation: Students who have not met the reading proficiency requirement for graduation are advised to take a reading course before taking this algebra course.

Grading: letter grade or pass/no pass
Courses of Instruction

This is the first course in algebra. Topics in this course include solving linear equations and inequalities in one variable; graphing linear equations and inequalities in two variables; solving systems of linear equations; factoring; performing operations on polynomials, rational expressions, and radical expressions; and solving rational, radical, and quadratic equations. Application problems are solved throughout the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center. A student may take either MATH 110 or MATH 110A and MATH 110B to fulfill the course requirement.

MATH 110A  
First Course in Algebra-Part 1  
3.0 units  
3.4 hours lecture, 1.1 hours laboratory, 0.3 hour supplemental learning  
Prerequisite: Qualification through the LBCC assessment process for Math or MATH 815. Recommended Preparation: Students who have not met the reading proficiency requirement for graduation are advised to take a reading course before taking this algebra course.  
Grading: letter grade or pass/no pass  
This is the first of a two-semester sequence of the first course in algebra. Topics include solving linear equations and inequalities in one variable, graphing linear equations and inequalities in two variables, solving systems of linear equations, and simplifying polynomial and exponential expressions. Application problems are solved throughout the course. Group activities are incorporated within the lab portion of the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center. A student may receive credit for either MATH 110 or 110A and 110B.

MATH 110B  
First Course in Algebra-Part 2  
3.0 units  
3.4 hours lecture, 1.1 hours laboratory, 0.3 hour supplemental learning  
Prerequisite: MATH 110A  
Recommended Preparation: Students who have not met the reading proficiency requirement for graduation are advised to take a reading course before taking this algebra course.  
Grading: letter grade or pass/no pass  
This is the second of a two-semester sequence of the first course in algebra. Topics include factoring, simplifying rational and radical expressions, solving rational and radical equations, and solving quadratic equations. Application problems are solved throughout the course. Group activities are incorporated within the lab portion of the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center. A student may receive credit for either MATH 110 or Math 110A and 110B.

MATH 115  
Applied Math  
4.0 units  
4.5 hours lecture, 0.3 hour supplemental learning  
Prerequisite: Qualification through the LBCC assessment process for Math  
Recommended Preparation: Students who have not met the reading proficiency requirement for graduation are advised to take a reading course before taking this algebra course.  
Recommended Preparation: READ 882  
Grading: letter grade or pass/no pass  
This course is modified intermediate algebra course meant as an alternative pathway for students not intended to take trigonometry or college algebra. Intermediate algebra concepts will be studied, but lessons will be infused with more real world applications that will not only prepare students for statistics and liberal arts math, but also appeal to certain trades students who would use this class to satisfy the math requirement for their AA degree. Topics would include linear equations, functions, applications and their graphs, polynomial equations and applications, exponential and logarithmic applications, as well as basic geometry, trigonometric applications, vectors, counting and probability, and basics statistics concepts. Students are required to complete 4 hours of supplemental learning activities in a designated Success Center.

MATH 120  
Geometry  
4.0 units  
4.5 hours lecture  
Prerequisite: Qualification through the LBCC assessment process for Math or MATH 110 or MATH 110B or MATH 880 or one year High School Elementary Algebra with a grade of B or better as reflected by the second semester grade.  
Grading: letter grade or pass/no pass  
This is a traditional Euclidean geometry course covering such topics as deductive reasoning, basic postulates and theorems, congruency, similarity, area, volume, right triangle trigonometry, analytic geometry, and constructions.

MATH 125  
Stat Path  
6.0 units  
6.8 hours lecture, 0.3 hour supplemental learning  
Prerequisite: MATH 815 or Qualification through the LBCC assessment process for Math. Recommended Preparation: READ 882.  
Grading: letter grade or pass/no pass  
This course combines the topics found in a Beginning Algebra (Math 110) and Applied Mathematics (Math 115). The idea is to give stronger students an accelerated 1-semester alternative to the current 2-semester Math 110/115 sequence. Topics include solving linear and quadratic equations and inequalities; polynomial, exponential and logarithmic functions; graphing linear and quadratic functions; polynomial, rational, and radical arithmetic; solving basic rational, radical equations, graphing lines and parabolas; basic geometric and trigonometric concepts and applications, and basic statistics, counting and probability concepts. Application problems are solved throughout the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center.

MATH 130  
Intermediate Algebra  
5.0 units  
5.6 hours lecture, 0.3 hour supplemental learning  
Prerequisite: Qualification through the LBCC assessment process for Math or MATH 110 or MATH 110B or MATH 880 or one year High School Elementary Algebra with a grade of B or better as reflected by the second semester grade.  
Recommended Preparation: Students who have not met the reading proficiency requirement for graduation are advised to take a reading course before taking this algebra course.  
Grading: letter grade or pass/no pass
This course continues the study of algebra in preparation for transfer level courses. Topics include polynomial, algebraic, quadratic, exponential and logarithmic functions; graphing; systems of equations and inequalities; factoring; rational expressions and equations; and roots, radicals and complex numbers. Application problems are solved throughout the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center.

MATH 130A 3.0 units
Intermediate Algebra, Part A
3.4 hours lecture, 0.3 hour supplemental learning
Prerequisite: Qualification through the LBCC assessment process for Math or MATH 110 or MATH 110B or MATH 880 or one year High School Elementary Algebra with a grade of B or better as reflected by the second semester grade.
Recommended Preparation: Students who have not met the reading proficiency requirement for graduation are advised to take a reading course before taking this algebra course.
Grading: letter grade or pass/no pass
This is the first of a two-semester sequence of intermediate algebra. This course continues the study of algebra in preparation for transfer level courses. Topics include solving linear equations and inequalities; graphing functions and inequalities; solving systems of equations and inequalities; factoring; and solving rational equations. Application problems are solved throughout the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center. A student may receive credit for either MATH 130 or 130A and 130B.

MATH 130B 3.0 units
Intermediate Algebra, Part B
3.4 hours lecture, 0.3 hour supplemental learning
Prerequisite: MATH 130A
Grading: letter grade or pass/no pass
This is the second of a two-semester sequence of intermediate algebra. This course continues the study of algebra in preparation for transfer level courses. Topics include radicals and complex numbers; quadratic functions; exponential and logarithmic functions; and conic sections. Application problems are solved throughout the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center. A student may receive credit for either MATH 130 or 130A and 130B.

MATH 140 6.0 units
Algebra Readiness
6.8 hours lecture, 0.3 hour supplemental learning
Prerequisite: MATH 815 or Qualification through the LBCC assessment process for Math.
Recommended Preparation: READ 882.
Grading: letter grade or pass/no pass
This course combines the topics found in a beginning and intermediate algebra class and is meant as an accelerated 1-semester alternative to the normal Math 110/130 2-semester sequence. Topics typically duplicated in an intermediate algebra course shall be covered once, at greater length and in greater detail. Topics include solving linear and quadratic equations and inequalities; polynomial, exponential and logarithmic functions; graphing linear and quadratic functions; polynomial, rational, and radical arithmetic; solving rational, radical, exponential and logarithmic equations; graphing lines, parabolas, and other conic sections; and complex numbers. Application problems are solved throughout the course. Students are required to complete 5 hours of supplemental learning activities in any designated Success Center.
MEDICAL ASSISTING (MA)

MA 270  3.0 units
Introduction to Medical Assisting
2.3 hours lecture, 3.4 hours laboratory, 0.2 hour supplemental learning
Grading: letter grade
This is the first course of three courses designed for prospective medical assistants. Topics will include instruction of procedures utilized by medical assistants. This includes the beginning level skills of asepsis, vital signs, health history, office emergencies, telephone techniques, patient education, and appointment scheduling. Typically offered for eight weeks. In order to assist students with the challenges of the course content, students are required to complete 3 hours of Supplemental Learning Assistance activities in a Multidisciplinary Success Center over the course of the semester.

MA 280  3.0 units
Health Care Clinical Procedures
2.3 hours lecture, 3.4 hours laboratory
Prerequisite: MA 270 and health evaluation.
Grading: letter grade
This is the second course of three courses designed for prospective clinical medical assistants. This course develops the skills required to assist the physician with instruction in the advanced level of psychosocial skills, surgical asepsis, assisting with minor surgery, specialty exams, patient positioning, drug administration, injections and basic pharmacology.

MA 282  3.0 units
Advanced Health Care Clinical Procedures
2.3 hours lecture, 3.4 hours laboratory
Prerequisite: MA 280
Grading: letter grade
This is the third of three courses designed for prospective clinical medical assistants. Topics will include instruction in the advanced level of psychosocial skills, electrocardiograph techniques, phlebotomy, and in office laboratory skills.

MA 284A  2.0 units
Medical Assisting Clinical Practicum
6.8 hours laboratory
Prerequisite: MA 280
Grading: pass/no pass
This course is designed to give the student work experience in selected health care offices and/or clinics. Students in this course will experience the clinical aspects of Medical Assisting. This course is typically offered for eight weeks.

MA 284B  2.0 units
Med Asst Administrative Practicum
6.8 hours laboratory
Prerequisite: MA 270
Grading: pass/no pass
This course is designed to give the student work experience in selected health care offices and/or clinics. Students in this course will experience the administrative aspects of Medical Assisting. This course is typically offered for eight weeks.

MA 286  4.0 units
Medical Assisting Combined Practicum
13.5 hours laboratory
Grading: pass/no pass
This course is designed to give the student work experience in selected health care offices and/or clinics. Students in this course will experience the administrative as well as the clinical aspects of Medical Assisting.

MA 288  1.0 unit
Medical Assisting Practicum Seminar
1.1 hours lecture
Corequisite: MA 284A, MA 284B or MA 286
Grading: letter grade
This course offers students in the Medical Assisting Program an advanced level of skills and theory, including office emergencies, professional office conduct, health care office management, resume writing and techniques utilized in job seeking.

MA 290  3.0 units
Basic Medical Insurance Billing
2.3 hours lecture, 3.4 hours laboratory
Grading: letter grade
This course is designed for prospective medical assistants and those students interested in medical insurance billing. This course will include medical insurance billing requirements, ICD-10, and CPT coding, to successfully file claims and effect collection of payment for medical services given.

METAL FABRICATION (MTFAB)

MTFAB 50  4.0 units
Introduction to Metalworking
3.4 hours lecture, 4.5 hours laboratory, 0.3 hour supplemental learning
Grading: letter grade or pass/no pass
Formerly SHMET 50. This course is designed to provide students with a basic introduction to sheet metal fabrication, layout and career opportunities related to the industry and “green technologies.” Students will learn to identify and safely operate hand tools and power machinery used in sheet metal fabrication. They will be instructed in the characteristics and properties of different sheet metal materials. The course will introduce students to measurement, shop math and sheet metal layout. Students will be assigned and evaluated on lab projects which will involve sheet metal layout, forming and fabrication and include the use of mechanical seams, welding and soldering techniques. Students will be required to attend 5 hour in the CTE Success Center for specially designed activities and assignments that relate to this course’s content.
Transfer Status: Transferable to CSU Only: see counselor for limitations.

MTFAB 220A  4.0 units
Basic Metal Layout and Fabrication
3.4 hours lecture, 4.5 hours laboratory, 0.3 hour supplemental learning
Grading: letter grade or pass/no pass
Formerly SHMET 220A. This course is designed to provide students with a basic introduction to sheet metal fabrication, layout and career opportunities related to the industry and “green technologies.” Students will learn to identify and safely operate hand tools and power machinery used in sheet metal fabrication. They will be
instructed in the characteristics and properties of different sheet metal materials. The course will introduce students to measurement, shop math and sheet metal layout. Students will be assigned and evaluated on lab projects which will involve sheet metal layout, forming and fabrication and include the use of mechanical seams, welding and soldering techniques. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course’s content.

MTFAB 220B 4.0 units
Advanced Metal Layout and Fabrication
3.4 hours lecture, 4.5 hours laboratory, 0.3 hour supplemental learning
Corequisite: MTFAB 220A or MTFAB 50
Grading: letter grade or pass/no pass
Formerly SHMET 220B. This course is designed for people working in or wishing to enter the Sheet Metal trade in the fields of air conditioning, industrial sheet metal or architectural sheet metal. This course will provide comprehensive instruction in advanced sheet metal layout, including parallel lines, radial lines and triangulation. Students will be introduced to the safe set up and operation of sheet metal fabrication power equipment with emphasis on training equal to industry standards. The course will also introduce the student to green technologies as they relate to energy efficiency and Solar Energy Systems found in the Sheet Metal industry. Students will be required to attend 5 hours in the CTE Success Center for specially designed activities and assignments that relate to this course’s content.

MTFAB 220C 4.0 units
Power Metalworking Machine Operations
3.4 hours lecture, 4.5 hours laboratory
Corequisite: MTFAB 220A or MTFAB 50
Grading: letter grade or pass/no pass
Formerly SHMET 220C. This course is designed for people working in or wishing to enter the metalworking trades in the fields of construction and manufacturing. This is a comprehensive course in powered sheet metal fabrication equipment. The course will cover the safe set up and operation of press brakes, ironworkers, turret punch, rotary machines, welders, shears, rollformers, tube benders, and notchers. Individualized hands-on experience in tool setup and job shop performance equal to industry standards will be provided. Students will also be introduced to the materials and fabrication techniques necessary to build a solar air heater.

MTFAB 220D 4.0 units
CNC Metal Fabrication Systems
3.4 hours lecture, 4.5 hours laboratory
Corequisite: MTFAB 220A or MTFAB 50
Grading: letter grade or pass/no pass
Formerly SHMET 220D. This course is designed for people working in or wishing to enter the metalworking trades in the fields of construction and manufacturing. This is a comprehensive course on CNC metal fabrication software as it relates to press brake, plasma cutter, router and tube bender. The course will cover the use of software to design metal components as they relate to the construction and manufacturing fields, with additional emphasis placed on the design of metal products used in the emerging "green energy" fields.

MTFAB 221 2.0 units
Construction Blueprint Reading
2.3 hours lecture
Recommended Preparation: MTFAB 220A or MTFAB 50.
Grading: letter grade or pass/no pass
Formerly SHMET 221. This course covers the principles of interpreting building blueprints and specifications required by the tradesman in the construction trades. The student will learn to use building plans and specifications to layout and order components used in mechanical systems. The course will also cover the interpretation of schematic drawings of Green Technologies as they relate to the construction trades in regards to solar energy systems and architectural roofing systems.

MTFAB 223 2.0 units
Sheet Metal Duct Systems and Fabrication
2.3 hours lecture
Recommended Preparation: MTFAB 220A or MTFAB 50.
Grading: letter grade or pass/no pass
Formerly SHMET 223. This course is designed to introduce the student to techniques used to install sheet metal duct systems. Various types of duct systems and their components will be discussed with added emphasis on energy efficiency and sustainability.

MTFAB 260 3.0 units
Blueprint Reading for Metal Fabrication
3.4 hours lecture
Grading: letter grade
Examines blueprint interpretation practices commonly used by metal fabrication industries. Exposure to common drawing types, symbols, views, lines, dimensions, and tolerances. Emphasis placed on the analysis of welding symbols as approved by the American Welding Society (AWS) and International Organization of Standardization (ISO).

MTFAB 270 3.0 units
Metallurgy
3.4 hours lecture
Grading: letter grade
Introduces basic metallurgy as applied to metal fabrication and welding. Common heat treatment procedures, welding enhancement procedures, and thermal control of stress and strain in relation to ferrous and non-ferrous metals are emphasized. Proper determination of chemical contents of common steels, cast irons, stainless steels, and aluminum alloys are demonstrated.

MTFAB 280 2.5 units
Introduction to Robotic Welding
2.3 hours lecture, 1.7 hours laboratory
Grading: letter grade
The first of a three-part series introducing fundamental theory and hands-on application of robotic welding automation. Emphasizes safety awareness, programming techniques, and basic gas metal arc welding applications using six-axis robotic welding systems.
### Courses of Instruction

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
</table>
| MTFAB 281   | 2.5   | Intermediate Robotic Welding  
2.3 hours lecture, 1.7 hours laboratory  
Grading: letter grade  
The second of a three-part series introducing intermediate level theory and hands-on application of robotic welding automation. Emphasizes safety awareness, programming techniques, and intermediate gas metal arc welding applications using six-axis robotic welding systems. |
| MTFAB 420   | 2.0   | Metal Fabrication and Layout  
6.8 hours laboratory  
Recommended Preparation: MTFAB 220A or MTFAB 50.  
Grading: letter grade or pass/no pass  
Formerly SHMET 420. This course will address the techniques used in basic metal layout and fabrication. The course will also reinforce safe and correct setup and use of metal fabrication machinery and hand tools. This class is an open entry/exit program, and requires the completion of 108 lab hour. |
| MTFAB 421   | 1.0   | Metal Fabrication and Layout  
3.4 hours laboratory  
Recommended Preparation: MTFAB 220A or MTFAB 50.  
Grading: pass/no pass  
Formerly SHMET 421. This course will address the techniques used in basic metal layout and fabrication. The course will also reinforce safe and correct setup and use of metal fabrication machinery and hand tools. This class is an open entry/exit program, and will require a completion of 54 lab hours. |
| MTFAB 423   | 3.0   | Metal Fabrication and Layout  
10.1 hour laboratory  
Recommended Preparation: MTFAB 220A or MTFAB 50.  
Grading: pass/no pass  
Formerly SHMET 423. This course will address the techniques used in basic metal layout and fabrication. The course will also reinforce safe and correct setup and use of metal fabrication machinery and hand tools. This class is an open entry/exit program, and will require a completion of 162 lab hours. |
| MUSIC 1A     | 3.0   | Music Theory I  
3.4 hours lecture  
Prerequisite: MUSIC 6  
Grading: letter grade or pass/no pass  
This course covers the following topics through analysis and application of compositional practices of pieces from the common-practice period: diatonic harmony through four-part writing and roman numeral analysis, including the use of figured bass and early-species counterpoint, 7th chords, and the basic elements of form.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations. |
| MUSIC 1B     | 3.0   | Music Theory II  
3.4 hours lecture  
Prerequisite: MUSIC 1A  
Grading: letter grade or pass/no pass  
This course covers the following topics through analysis and application of compositional practices of pieces from the common-practice period: chromatic harmony through four-part writing and roman numeral analysis, including applied functions, modulation, mixture, Neapolitan chords, Augmented 6th chords, and small forms.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations. |
| MTFAB 420   | 2.0   | Metal Fabrication and Layout  
6.8 hours laboratory  
Recommended Preparation: MTFAB 220A or MTFAB 50.  
Grading: letter grade or pass/no pass  
Formerly SHMET 420. This course will address the techniques used in basic metal layout and fabrication. The course will also reinforce safe and correct setup and use of metal fabrication machinery and hand tools. This class is an open entry/exit program, and requires the completion of 108 lab hour. |
| MTFAB 421   | 1.0   | Metal Fabrication and Layout  
3.4 hours laboratory  
Recommended Preparation: MTFAB 220A or MTFAB 50.  
Grading: pass/no pass  
Formerly SHMET 421. This course will address the techniques used in basic metal layout and fabrication. The course will also reinforce safe and correct setup and use of metal fabrication machinery and hand tools. This class is an open entry/exit program, and will require a completion of 54 lab hours. |
| MTFAB 423   | 3.0   | Metal Fabrication and Layout  
10.1 hour laboratory  
Recommended Preparation: MTFAB 220A or MTFAB 50.  
Grading: pass/no pass  
Formerly SHMET 423. This course will address the techniques used in basic metal layout and fabrication. The course will also reinforce safe and correct setup and use of metal fabrication machinery and hand tools. This class is an open entry/exit program, and will require a completion of 162 lab hours. |
| MTFAB 281   | 2.5   | Intermediate Robotic Welding  
2.3 hours lecture, 1.7 hours laboratory  
Grading: letter grade  
The second of a three-part series introducing intermediate level theory and hands-on application of robotic welding automation. Emphasizes safety awareness, programming techniques, and intermediate gas metal arc welding applications using six-axis robotic welding systems. |
| MUSIC 1A     | 3.0   | Music Theory I  
3.4 hours lecture  
Prerequisite: MUSIC 6  
Grading: letter grade or pass/no pass  
This course covers the following topics through analysis and application of compositional practices of pieces from the common-practice period: diatonic harmony through four-part writing and roman numeral analysis, including the use of figured bass and early-species counterpoint, 7th chords, and the basic elements of form.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations. |
| MUSIC 1B     | 3.0   | Music Theory II  
3.4 hours lecture  
Prerequisite: MUSIC 1A  
Grading: letter grade or pass/no pass  
This course covers the following topics through analysis and application of compositional practices of pieces from the common-practice period: chromatic harmony through four-part writing and roman numeral analysis, including applied functions, modulation, mixture, Neapolitan chords, Augmented 6th chords, and small forms.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations. |
| MUSIC 2A     | 3.0   | Music Theory III  
3.4 hours lecture  
Prerequisite: MUSIC 1B  
Grading: letter grade or pass/no pass  
This course covers the following topics through analysis and application of compositional practices of pieces from the common-practice period, and early-mid 20th Century: enharmonic spellings and modulations, extended and advanced chromatic and altered chords, advanced chromatic sequences, alternate scales, advanced rhythmic techniques, and post-tonal techniques.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations. |
| MUSIC 5      | 1.0   | Musicianship I  
3.4 hours laboratory  
Corequisite: MUSIC 6  
Grading: letter grade or pass/no pass  
Formerly MUSIC 5AD. This course covers the techniques of music dictation and sight-singing with basic, tonal materials. Topics covered are scales, intervals, basic chord structures, and harmonic-melodic-rhythmic dictation.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations. |
| MUSIC 6      | 3.0   | Introduction to Music Theory  
3.4 hours lecture  
Grading: letter grade or pass/no pass  
This course is a complete introduction to music fundamentals and basic musicianship. Traditional topics are covered such as notation, meter, scales, intervals, triads, and chords. This class is designed for both music majors and non-music majors.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations. |
| MUSIC 7      | 2.5   | Elementary Voice  
2.3 hours lecture, 2.3 hours laboratory  
Grading: letter grade or pass/no pass  
Formerly MUSIC 7AB. Elementary Voice is a performance class designed to improve singers of all ages and talent levels. Students will learn correct techniques in tone production, breathing, diction, repertoire and song interpretation. The students will also be able to develop their self-confidence through class performance.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations. |
MUSIC 8AD 2.5 units
Advanced Voice
2.3 hours lecture, 2.3 hours laboratory
Recommended Preparation: MUSIC 7AB
Grading: letter grade or pass/no pass
Advanced voice is a performance class designed to improve vocal techniques of the more accomplished singer. Students will be able to perform standard repertoire from classical literature which includes art songs and arias in English, German, French, and Italian as well as vocal selections from Musical Theater. Students will be able to work with a professional accompanist, improve their vocal and musical technique and receive written critiques by the instructor.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 9 1.0 unit
Musicianship II
3.4 hours laboratory
Prerequisite: MUSIC 5
Corequisite: MUSIC 1A
Grading: letter grade or pass/no pass
Formerly MUSIC 9AD. This course covers the techniques of musical dictation and sight-singing with intermediate, diatonic tonal materials. Topics covered are intermediate scales, intervals, chord structures, and harmonic-melodic-rhythmic dictation.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 10 1.0 unit
Musicianship III
3.4 hours laboratory
Prerequisite: MUSIC 9
Corequisite: MUSIC 1B
Grading: letter grade or pass/no pass
Formerly MUSIC 10AD. This course covers the techniques of musical dictation and sight-singing with intermediate and semi-advanced, diatonic and chromatic tonal materials. Topics covered are advanced scales, intervals, chord structures, and harmonic-melodic-rhythmic dictation.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 11AD 1.0 unit
Long Beach City College Viking Chorale
5.6 hours laboratory
Recommended Preparation: Prior vocal experience
Grading: letter grade or pass/no pass
This course is a large choral ensemble that includes the study and performance of the classical choral repertoire from all historical musical periods. Attendance at all rehearsals and performances is mandatory. It is advisable that participating students have some previous choral experience, though it is not required.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 12AD 1.0 unit
Long Beach City College Viking Singers
5.6 hours laboratory
Grading: letter grade or pass/no pass
This choir is a select ensemble with performances throughout the year. All periods and styles of choral music, especially classical chamber literature, are performed.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 13AD 1.0 unit
College Symphony Orchestra
5.6 hours laboratory
Recommended Preparation: Prior instrumental experience
Grading: letter grade or pass/no pass
This course is a study of orchestral techniques through reading, rehearsal and performance of standard literature. Participation in performances is required.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 14AD 1.0 unit
Orchestra
5.6 hours laboratory
Recommended Preparation: Prior instrumental experience
Grading: letter grade or pass/no pass
This course is a study of orchestral techniques through reading, rehearsal, and performance of orchestral repertoire.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 15AD 1.0 unit
Chamber Orchestra
5.6 hours laboratory
Recommended Preparation: Prior instrumental experience
Grading: letter grade or pass/no pass
This is a course that consists of reading, studying and performing standard repertoire for small/chamber orchestra.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 16 1.0 unit
Musicianship IV
3.4 hours laboratory
Prerequisite: MUSIC 10
Corequisite: MUSIC 2A
Grading: letter grade
Formerly MUSIC 16AD. This course covers the techniques of musical dictation and sight-singing with advanced, chromatic tonal and atonal materials. Topics covered are advanced scales, intervals, chord structures, and harmonic-melodic-rhythmic dictation.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 17A 0.5 unit
Advanced Applied Vocal & Instrumental Music
2.3 hours laboratory
Prerequisite: At least 2 semesters of MUSIC 92AD and performing audition before the program faculty.
Corequisite: MUSIC 11AD or 14AD or 46 and MUSIC 6 or 1A or 1B or 2A and MUSIC 5 or 9 or 10 or 16.
Grading: letter grade
Formerly MUSIC 17. This course continues the skills and outcomes of MUSIC 92AD in preparation for advanced repertoire and techniques in performance, and also serves as major preparation for the transfer audition. This also serves as the final preparation for a Sophomore recital.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
Courses of Instruction

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
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<tbody>
<tr>
<td>MUSIC 19</td>
<td>2.5</td>
</tr>
<tr>
<td>Beginning Instruments</td>
<td></td>
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<tr>
<td>2.3 hours lecture, 2.3 hours laboratory</td>
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<tr>
<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>This course will focus on small vocal/chamber Jazz repertoire with performances throughout the year. All periods and styles of vocal Jazz ensemble music will be covered and performed as it pertains to small vocal/chamber Jazz ensembles.</td>
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<tr>
<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tbody>
<tr>
<td>MUSIC 20</td>
<td>1.0</td>
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<tr>
<td>LBCC Southland Chorale</td>
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<tr>
<td>5.6 hours laboratory</td>
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<tr>
<td>Recommended Preparation: Prior vocal experience.</td>
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<tr>
<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>Formerly MUSIC 20AD. The Southland Chorale will study and perform choral music of all historical musical periods. Singers will perform repertoire including a'capella, orchestra choral works, secular and sacred, light opera and musical theatre. The Southland Chorale involves participation in all concerts and performances.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tbody>
<tr>
<td>MUSIC 23AD</td>
<td>1.5</td>
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<tr>
<td>Vocal Jazz Ensemble</td>
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<tr>
<td>5.6 hours laboratory</td>
<td></td>
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<tr>
<td>Recommended Preparation: MUSIC 23AD</td>
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<tr>
<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>The Vocal Jazz Ensemble involves the study and performance of the standard large ensemble jazz repertoire from all historical jazz musical periods. Attendance at all rehearsals and performances is mandatory.</td>
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<td>Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tbody>
<tr>
<td>MUSIC 24AD</td>
<td>1.0</td>
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<tr>
<td>Jazz Singers</td>
<td></td>
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<tr>
<td>5.6 hours laboratory</td>
<td></td>
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<tr>
<td>Recommended Preparation: MUSIC 23AD</td>
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<tr>
<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>This course will focus on small vocal/chamber Jazz repertoire with performances throughout the year. All periods and styles of vocal Jazz ensemble music will be covered and performed as it pertains to small vocal/chamber Jazz ensembles.</td>
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<td>Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tbody>
<tr>
<td>MUSIC 25AD</td>
<td>1.0</td>
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<tr>
<td>Chamber Music Ensemble</td>
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<tr>
<td>5.6 hours laboratory</td>
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<tr>
<td>Recommended Preparation: Prior vocal or instrumental experience.</td>
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<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>This course includes the study and performance of music for chamber ensembles including: brass ensemble, woodwind ensemble, percussion ensemble, string ensemble, and guitar ensemble.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<th>Units</th>
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<tbody>
<tr>
<td>MUSIC 27</td>
<td>1.0</td>
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<tr>
<td>Brass Ensemble</td>
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<tr>
<td>5.6 hours laboratory</td>
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<tr>
<td>Recommended Preparation: Prior instrumental experience.</td>
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<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>The brass ensemble rehearses and performs music of various periods for this particular medium. The group can range from a quintet to large double brass choirs. One concert performance is required each semester. The brass repertoire can include various styles from classical to contemporary music as well as jazz and pop arrangements.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tbody>
<tr>
<td>MUSIC 28AD</td>
<td>1.5</td>
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<tr>
<td>Percussion Ensemble</td>
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<tr>
<td>5.6 hours laboratory</td>
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<td>Students will learn various skills and techniques for playing snare drum and various other percussion instruments. Music reading, drum rudiments, percussion techniques, and musicianship are emphasized. Students will perform in small and large percussion ensembles. Students must provide their own sticks and practice pad.</td>
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<tr>
<td>Transfer Status: Transferable to UC Only; see counselor for limitations.</td>
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<tr>
<td>MUSIC 30A</td>
<td>3.0</td>
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<tr>
<td>Music History: Antiquity to 1750</td>
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<tr>
<td>3.4 hours lecture</td>
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<tr>
<td>Recommended Preparation: ENGL 105 or ESL 34 or qualify for ENGL 1 through the assessment process.</td>
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<tr>
<td>Grading: letter grade or pass/no pass</td>
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<tr>
<td>This course is a survey of music history and literature from antiquity to 1750, including cultural, intellectual and social influences. This course provides an in-depth examination of the development of Western European music through analysis and synthesizing of historical details and stylistic elements of the musical trends of the era. This course is offered in the Fall semester only.</td>
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<td>Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
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<tbody>
<tr>
<td>MUSIC 30B</td>
<td>3.0</td>
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<tr>
<td>Music History: 1750-Present</td>
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<tr>
<td>3.4 hours lecture</td>
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<tr>
<td>Recommended Preparation: ENGL 105 or ESL 34 or qualify for ENGL 1 through the assessment process.</td>
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<tr>
<td>Grading: letter grade or pass/no pass</td>
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</table>
| This course is an overview on the development of the jazz tradition, tracing back to its African roots, and forward through the different styles, including blues, ragtime, swing, bebop, and post-bop. This course also focuses on the critical cultural and
social issues associated with African-Americans and American history, and the role the musical developments played within the context of art as a reflection of society.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**MUSIC 33B** 3.0 units

**Intercultural Music**
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is a survey of various types of music from Latin America and the Caribbean. Students will learn to recognize numerous styles of music through rhythmic patterns, as well as the historical, geographic, and political dimensions of the genres, with emphasis on the contribution of African and European music on Latin styles.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**MUSIC 35** 3.0 units

**Music of Multicultural America**
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is a comparative and integrative study of the multicultural musical styles of the United States, based on the fundamental principles of music appreciation. This class will feature the music histories and progressions of Native Americans, European Americans, African Americans, Chicano/Latino Americans, Pacific Islanders, Asian Americans and Middle Eastern Americans. Students will gain the knowledge and skills necessary to understand and interpret analyses of musical traditions from technical and cultural perspectives. Students will progress through the sequential development of listening and descriptive skills with a variety of media including films, recordings, hands-on performance activities, and computer-assisted instruction.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**MUSIC 38AD** 1.0 unit

**Wind Ensemble**
5.6 hours laboratory
Recommended Preparation: Prior instrumental experience.
Grading: letter grade or pass/no pass
This course involves the study and performance of music composed for winds and percussion instruments, usually with one player per part. The musical literature represented includes all contemporary wind ensemble music as well as classical arrangements and transcriptions. The wind ensemble typically performs at least two concerts per semester.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**MUSIC 40** 3.0 units

**Appreciation of Music**
3.4 hours lecture
Grading: letter grade or pass/no pass
This course serves as a broad approach to musical literature and its place in the cultural development of western civilization. It is designed for the non-music major.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.
Courses of Instruction

MUSIC 47AD 1.0 unit
Wind Symphony
5.6 hours laboratory
Recommended Preparation: Prior instrumental experience.
Grading: letter grade or pass/no pass
The Wind Symphony is a performance organization which seeks out, prepares and performs wind band literature from all periods and musical styles. While all repertoire is considered, the majority of music performed is somewhat more traditional in nature and tends to be focused more on mainstream 20th Century literature composed and transcribed for wind instruments. The instrumentation of the wind ensemble includes woodwinds, brass, and percussion. The ensemble will traditionally have two concerts a semester as well as go on a tour in the spring. Other concert opportunities may also arise.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 49AD 1.0 unit
Viking Show Band
5.6 hours laboratory
Recommended Preparation: Prior instrumental experience.
Grading: letter grade or pass/no pass
The Viking Show Band will perform for all home football and basketball games as well as pep rallies, performances on campus, and at a variety of special activities in and around the Long Beach community.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

MUSIC 51A 3.0 units
Beginning Piano 1
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is an introduction to beginning keyboard skills. It includes basic technique, major and minor five finger patterns, major scales, sight reading and basic chord progressions, as they are encountered in beginning piano music.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 51B 3.0 units
Beginning Piano 2
3.4 hours lecture
Prerequisite: MUSIC 51A
Grading: letter grade or pass/no pass
In this course students refine and further develop beginning keyboard skills. This includes piano technique, major and minor scales and arpeggios, sight-reading, chord progressions and harmonization skills, as encountered in upper-beginning/early intermediate piano music.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 51C 3.0 units
Intermediate Piano I
3.4 hours lecture
Prerequisite: MUSIC 51B
Grading: letter grade or pass/no pass
This course will allow students to refine and develop beginning keyboard skills. Piano technique, major and minor scales and arpeggios, sight-reading, expanded chord progressions and harmonization skills are encountered in intermediate piano music.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 51D 3.0 units
Intermediate Piano II
3.4 hours lecture
Prerequisite: MUSIC 51C
Grading: letter grade or pass/no pass
This course will allow students to refine and develop intermediate keyboard skills. Piano technique, harmonization techniques, ensemble skills, and stylistic considerations are encountered in upper-intermediate piano repertoire.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

MUSIC 54AD 1.5 units
Jazz Ensemble
5.6 hours laboratory
Recommended Preparation: Prior Instrumental experience
Grading: letter grade
This course involves the study and performance of jazz ensemble music. The Jazz Ensemble rehearses and performs music ranging from the classic big band repertoire to contemporary and cutting-edge concert jazz music by today’s leading jazz composers. Typically two concert performances are required each semester.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

MUSIC 55AD 2.5 units
Guitar
2.3 hours lecture, 2.3 hours laboratory
Grading: letter grade or pass/no pass
This course provides beginning instruction in the guitar, using a classical approach to basic technique, musicianship, and repertoire.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 56AD 2.5 units
Intermediate Guitar
2.3 hours lecture, 2.3 hours laboratory
Prerequisite: MUSIC 55AD
Grading: letter grade or pass/no pass
This course provides intermediate/advanced instruction in the guitar, using a classical approach to advanced technique, musicianship, ensemble work, and repertoire.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
**Courses of Instruction**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Title</th>
<th>Hours of Lecture/Laboratory</th>
<th>Grading</th>
<th>Recommended Preparation</th>
<th>Transfer Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 57AD</td>
<td>1.5</td>
<td>Jazz Combos</td>
<td>5.6 hours laboratory</td>
<td>letter grade or pass/no pass</td>
<td></td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>MUSIC 58</td>
<td>1.5</td>
<td>College Philharmonia</td>
<td>5.6 hours laboratory</td>
<td>letter grade or pass/no pass</td>
<td>Prior successful orchestral experience</td>
<td>Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>MUSIC 60</td>
<td>2.5</td>
<td>Pro Tools (Digital Audio Recording/Edit)</td>
<td>2.3 hours lecture, 2.3 hours laboratory</td>
<td>letter grade</td>
<td></td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>MUSIC 68</td>
<td>3.0</td>
<td>Basic Audio Theory</td>
<td>3.4 hours lecture</td>
<td>letter grade or pass/no pass</td>
<td></td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>MUSIC 71AD</td>
<td>2.5</td>
<td>Introduction to Music Technology</td>
<td>2.3 hours lecture, 2.3 hours laboratory</td>
<td>letter grade or pass/no pass</td>
<td></td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>MUSIC 74AD</td>
<td>2.5</td>
<td>Solo Vocal Performance (Pop, Jazz, Rock)</td>
<td>2.3 hours lecture, 2.3 hours laboratory</td>
<td>letter grade or pass/no pass</td>
<td>MUSIC 7AB</td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>MUSIC 75A</td>
<td>3.0</td>
<td>The Music Business</td>
<td>3.4 hours lecture</td>
<td>letter grade or pass/no pass</td>
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<tr>
<td>MUSIC 75B</td>
<td>3.0</td>
<td>The Music Business</td>
<td>3.4 hours lecture</td>
<td>letter grade or pass/no pass</td>
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<td>Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>MUSIC 74AD</td>
<td>2.5</td>
<td>Studio Performance Techniques</td>
<td>5.6 hours laboratory</td>
<td>letter grade or pass/no pass</td>
<td></td>
<td>Transferable to CSU Only; see counselor for limitations.</td>
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</tbody>
</table>
Courses of Instruction

MUSIC 81  3.0 units  
Commercial Keyboard  
3.4 hours lecture  
Prerequisite: MUSC 51A  
Grading: letter grade or pass/no pass  
Formerly MUSC 81AD. This course is designed to give students a practical approach to music on piano keyboard instruments, and at the same time, provide avenues for the improvement of keyboard skills such as music styles, harmony, improvisation and reading.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

MUSIC 82  2.0 units  
Sound Reinforcement  
1.1 hours lecture, 5.6 hours laboratory  
Prerequisite: MUSC 94  
Grading: letter grade or pass/no pass  
Formerly MUSC 82AD. This course provides hands-on instruction in the use of sound reinforcement equipment, including miking techniques for live sound, selection and assembly of live sound systems, and the development of mixing expertise in a live sound venue.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

MUSIC 84AD  2.5 units  
Commercial Songwriting  
2.3 hours lecture, 2.3 hours laboratory  
Grading: letter grade or pass/no pass  
This course is a study of very contemporary songwriting principles and techniques. The course is designed to explore the use of technology in the songwriting process and is appropriate for students who wish to pursue careers as songwriters, artists, producers and/or recording engineers. Students will be introduced to systematic analytical techniques that aid in the developmental skills related to the songwriting process.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

MUSIC 87AD  1.0 unit  
Vocal Jazz Trios, Quintets, Octets  
5.6 hours laboratory  
Recommended Preparation: Prior vocal experience.  
Grading: letter grade or pass/no pass  
This course is a study of challenging vocal arrangements of jazz standards and pop classics. There will be multiple concerts and performances during the semester.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 88  2.5 units  
Small Studio Lab  
2.3 hours lecture, 2.3 hours laboratory  
Recommended Preparation: One semester of MUSC 94, MUSC 95, MUSC 96 or MUSC 98  
Grading: letter grade or pass/no pass  
Formerly MUSC 88AD. This course is a study of recording studio techniques. Students will explore the use of synthesizers, drum machines, digital effects units and computers in the small studio environment. The course is appropriate for students who wish to pursue careers as music producers, songwriters, and/or recording engineers.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

MUSIC 89  3.0 units  
History of Rock  
3.4 hours lecture  
Grading: letter grade or pass/no pass  
The History of Rock Music will be treated as a chronological study. This allows for brief overviews of society in periods and then illustrates how the music of a particular period either supports or contradicts societal views. Although the main emphasis of study will be from 1955 to the present, brief attention will be given to sixteenth through twentieth century musical history and form as it relates to this period.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 91AD  2.0 units  
Special Studies  
1.1 hours lecture, 3.4 hours laboratory  
Recommended Preparation: Prior vocal or instrumental experience.  
Grading: letter grade or pass/no pass  
This course entails the directed study of special problems in music theory, composition, musicology, performance practice or organization and administration of instrumental or vocal ensembles.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 92AD  0.5 unit  
Applied Music  
2.3 hours laboratory  
Prerequisite: Performance audition before the program faculty.  
Corequisite: MUSC 11AD or 14AD or 46 and MUSC 6 or 1A or 1B or 2A and MUSC 5 or 9 or 10 or 16.  
Grading: letter grade  
This course is designed for music majors planning to transfer to a university music program. It includes individual and master class instruction on either a keyboard instrument, voice, guitar or any standard instrument of the band or orchestra. The course includes performance of representative music literature from various periods and composers. The level of proficiency is determined by faculty adjudication.  
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

MUSIC 94AD  2.5 units  
Beginning Recording Techniques  
2.3 hours lecture, 2.3 hours laboratory  
Grading: letter grade or pass/no pass  
This course offers hands-on instruction for beginners in the use of multi-track recording systems, emphasizing critical listening skills, and the development of a recording project.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

MUSIC 96AD  2.5 units  
Advanced Recording Techniques  
2.3 hours lecture, 2.3 hours laboratory  
Prerequisite: MUSC 95AD  
Grading: letter grade or pass/no pass  
This class provides hands-on instruction in advanced recording techniques, including the use of a digital multi-track studio, studio mixing techniques, studio
etiquette, dealing with musicians, and mixing at the advanced level, including the advanced use of out-board gear.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 98A** 1.5 units  
**EXP: Jazz Ensemble**  
5.6 hours laboratory  
Recommended Preparation: Prior Instrumental experience.  
Grading: letter grade  
This course involves the study and performance of jazz ensemble music. The Jazz Ensemble rehearses and performs music ranging from the classic big band repertoire to contemporary and cutting-edge concert jazz music by today’s leading jazz composers. Typically two concert performances are required each semester. This will be expected of all enrolled students.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 98B** 1.5 units  
**EXP: Jazz Combos**  
5.6 hours laboratory  
Grading: letter grade or pass/no pass  
The students in this course will perform original jazz classics, American songbook standards, and new compositions. Jazz Combos consist of a rhythm section (bass, drums, piano or guitar) and one to four other instruments. The Jazz Combos perform 1-2 times each semester. This will be expected of all enrolled students.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 98C** 0.5 unit  
**EXP: Adv. Applied Vocal & Instrumental Music**  
2.3 hours laboratory  
Grading: letter grade  
This course continues the skills and outcomes of Music 17A in preparation for advanced repertoire and techniques in performance, and also serves as major preparation for the transfer audition. This also serves as the final preparation for a Sophomore recital. Students will participate in rehearsal and concert performances outside of regular class meetings.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**MUSIC 272AD** 3.0 units  
**Work Experience-Music**  
1.1 hours lecture, 9.3 hours laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline.  
Grading: letter grade or pass/no pass  
This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student.

**MUSIC 273AD** 4.0 units  
**Work Experience-Music**  
1.1 hours lecture, 14.1 hours laboratory  
Corequisite: Concurrent enrollment in at least one additional course in the discipline.  
Grading: letter grade or pass/no pass  
This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to occupational goal or career of interest to the student.

**NURSING, ASSOCIATE DEGREE**

**NURSING- RN (ADN)**

**ADN 11A** 2.5 units  
**Introduction to Nursing**  
2.8 hours lecture  
Prerequisite: Hospital agency requires CPR certification for health care providers. ANAT 1, PHYSI 1, BIO 2, and ENGL 1.  
Corequisite: ADN 11AL, PSYCH 1 or SOCIO 1 (may be taken as a prerequisite)  
Grading: letter grade  
The course is an introduction to the basic concepts of the Self-Care Theory of Nursing by Dorothea Orem. Included are the basic knowledge, skills and attitudes necessary to meet or to assist in meeting the universal self-care requisites of the hospitalized adult. Also included are the fundamental concepts upon which subsequent courses in the nursing program are built.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 11AL** 1.5 units  
**Introduction to Nursing Lab**  
5.1 hours laboratory  
Prerequisite: ENGL 1, ENGL 105 or ESL 34 and BIO 60, BIO 60L, and CDECE 47. Compliance with all clinical agency health and safety policies is required the first day of the course.  
Corequisite: ADN 11A  
Grading: letter grade or pass/no pass  
The course includes on-campus lab practice and application of the course content in clinical nursing situations. This lab course aligns with the course content presented in ADN 11A.

*Transfer Status: Transferable to CSU Only; see counselor for limitations.*
Courses of Instruction

ADN 11B 2.5 units
Health Deviations 1
2.8 hours lecture
Prerequisite: ADN 11A and ADN 11AL.
Corequisite: ADN 11BL.
Grading: letter grade
This course is an introduction to deviations in health of the adult client. It emphasizes the health deviation self-care requisites of intake of air, intake of water, balance of activity and rest. Collaborative problems are added to previously learned information about the nursing process; as well as medication administration, oral and injected. The course places an emphasis on teaching safety and communication for the hospitalized patient.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADN 11BL 1.5 units
Health Deviations 1 Lab
5.1 hours laboratory
Prerequisite: ADN 11A and ADN 11AL. Compliance with all clinical agency health and safety policies is required the first day of the course.
Corequisite: ADN 11B
Grading: letter grade or pass/no pass
This course includes on-campus lab practice and application of the course content in clinical nursing situations. Skill activities include oral and injected drug administration, respiratory, abdominal and lower leg assessment and related skills.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADN 12A 2.5 units
Health Deviations 2
2.8 hours lecture
Prerequisite: ADN 11B and ADN 11BL.
Corequisite: ADN 12AL.
Grading: letter grade
This course is the second medical-surgical nursing course in the nursing program. The effects and results of specific pathological conditions and treatment modalities upon the perioperative patient will be studied. Emphasis is placed on the nursing care needs of the middle adulthood. Students must be enrolled in this course before attempting to enroll in ADN 12AL.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADN 12AL 1.5 units
Health Deviations 2: Lab
5.6 hours laboratory
Prerequisite: ADN 11B and 11BL. Compliance with all clinical agency health and safety policies is required the first day of the course.
Corequisite: ADN 12A. You must first enroll in the corequisite course before you attempt to enroll in this class.
Grading: letter grade or pass/no pass
This laboratory course includes both on-campus laboratory practice and application of course content in the live nursing situation. Skills include intravenous therapy, medical and surgical aseptic practices and selected physical assessments. Students will provide nursing care for a two patient perioperative assignment in the acute care setting. Experiences off the unit may include a day in the operating room or outpatient services.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADN 12B 2.5 units
Health Deviations 3
2.8 hours lecture, 0.1 hour supplemental learning
Prerequisite: ADN 12A and ADN 12AL.
Grading: letter grade
This course continues to explore the professional role of the nurse, and patient demands for increased care necessitated by health deviations in the hospitalized adult. The content emphasizes the nursing process using Orem’s Self-Care Theory, specifically the requisites of sufficient intake of water and food, elimination, and excretion. Focus is placed on collaborative management of care, communication, safety, and critical thinking in assuming the expanding role of the registered nurse. Additionally, the effects of specific pathological health deviations and medical treatment modalities for the medical patient are studied with attention to teaching and learning. Students must be enrolled in this course before attempting to enroll in ADN 12BL. Students will be required to attend 1 hour of the supplemental learning activity in a designated Success Center.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADN 12BL 1.5 units
Health Deviations 3: Lab
5.1 hours laboratory
Prerequisite: ADN 12A and 12AL. Compliance with all clinical agency health and safety policies is required the first day of the course.
Corequisite: ADN 12B.
Grading: letter grade or pass/no pass
This course provides on-campus lab practice and application of course content utilizing Orem’s Self-Care Theory and the nursing process in the live nursing situation. Skill activities include intravenous therapy, physical assessments, and medical and surgical aseptic practice with related skills. Students assume the professional role of the registered nurse while collaborating and managing the safe care of a multiple patient assignment in the medical areas of the acute care facilities. Communication, teaching and learning, and critical thinking skills are emphasized.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

ADN 20A 1.0 unit
Transition to Second Level Nursing
1.1 hours lecture
Prerequisite: ANAT 1, PHYSI 1, BIO 2, ENGL 105 or ENGL 1 or ESL 34 CPR Certification for health care providers.
Corequisite: ADN 202AD.
Grading: letter grade or pass/no pass
This course is designed to prepare advanced placement licensed vocational nursing students for second level Registered Nursing content. The major foci are Orem’s Self Care Theory of Nursing and the application of the nursing process as a second level practitioner.
Transfer Status: Transferable to CSU Only; see counselor for limitations.
Courses of Instruction

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN 21B</td>
<td>2.5</td>
<td>Mental Health&lt;br&gt;2.8 hours lecture&lt;br&gt;Prerequisite: ADN 12B, ADN 12BL or ADN 20A. Grading: letter grade&lt;br&gt;This course is a study of Orem’s Self-Care Theory and the nursing process as they relate to mental health and/or mental health deviations in the client with acute/chronic debilitating diseases. Emphasis is placed on therapeutic communication skills. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>ADN 21BL</td>
<td>3.0</td>
<td>Mental Health Lab&lt;br&gt;10.1 hour laboratory&lt;br&gt;Prerequisite: ADN 12B and ADN 12BL or ADN 20A. Compliance with all clinical agency health and safety policies is required the first day of the course. Corequisite: ADN 21B&lt;br&gt;Grading: letter grade or pass/no pass&lt;br&gt;This laboratory course includes both on and off campus labs that provide an opportunity to practice and apply the theory content in simulated and live nursing situations. The primary emphasis is placed on the application of theory and integrating communication skills into interactions with patients in both the psychiatric and medical-surgical acute care settings. Skill activities include intravenous venipuncture, group participation and various communication techniques. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>ADN 22B</td>
<td>2.5</td>
<td>Advanced Nursing II Role Transition&lt;br&gt;2.8 hours lecture&lt;br&gt;Prerequisite: ADN 22A and ADN 22AL or ADN 322A. Grading: letter grade or pass/no pass&lt;br&gt;This course provides the opportunity to integrate all previously learned theories and skills. Advanced geriatric content and leadership theory is utilized in a primary or team nursing setting on various hospital shifts, and in the home health setting. The major emphasis is placed on the role transition from student to graduate nurse. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>ADN 22BL</td>
<td>3.0</td>
<td>Adv. Nursing II-Role Transition Lab&lt;br&gt;10.1 hour laboratory&lt;br&gt;Prerequisite: ADN 22A and ADN 22AL or ADN 322A. Compliance with all clinical agency health and safety policies is required the first day of the course. Corequisite: ADN 22B&lt;br&gt;Grading: letter grade or pass/no pass&lt;br&gt;This laboratory course provides the opportunity to integrate all previously learned theories and skills in the clinical setting. It incorporates advanced geriatric content and leadership theory in a primary or team nursing setting on various hospital shifts and in the home health setting. The major emphasis is on the role transition from student to graduate novice nurse. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>ADN 31A</td>
<td>1.0</td>
<td>Trends in Nursing A&lt;br&gt;1.1 hours lecture&lt;br&gt;Corequisite: ADN 21A, ADN 21AL, ADN 21B and ADN 21BL&lt;br&gt;Grading: letter grade or pass/no pass&lt;br&gt;This course is designed for students to study the trends and issues which effect current nursing practice. The major foci include the evolution of nursing, professional opportunities for the practice of nursing, the legal and ethical relationships in nursing, the economics of health care, the interpersonal relationships among health care professionals and current issues. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>ADN 31B</td>
<td>1.0</td>
<td>Trends in Nursing B&lt;br&gt;1.1 hours lecture&lt;br&gt;Prerequisite: ADN 31A&lt;br&gt;Corequisite: ADN 22A, ADN 22AL, ADN 22B and ADN 22BL&lt;br&gt;Grading: pass/no pass&lt;br&gt;This course is designed to continue the study of the trends and issues in nursing. The major foci includes: Preparation for licensure, communication, development of a personal philosophy of nursing, the professional role of the nurse, professional employment, educational and volunteer opportunities. It also includes critical thinking, safety and collaboration. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>ADN 35A</td>
<td>1.5</td>
<td>Maternal/Newborn Nursing&lt;br&gt;1.7 hours lecture&lt;br&gt;Prerequisite: ADN 12B and ADN 12BL or ADN 20A and CPR certification for health care providers. Grading: letter grade&lt;br&gt;Formerly ADN 235A. This course emphasizes Orem’s Self-Care Theory of developmental self-care requisites, health deviations and universal self-care requisites as it relates to women and newborns. The content involves the study of gynecological problems, deviations from normal pregnancy, care during prenatal, intrapartal, and postpartal periods, of normal and high risk pregnancy. In addition the assessment and care of the normal newborn is included. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>ADN 35AL</td>
<td>1.5</td>
<td>Maternal/Newborn Nursing Lab&lt;br&gt;5.1 hours laboratory&lt;br&gt;Prerequisite: ADN 20A and CPR certification.&lt;br&gt;Corequisite: ADN 35A&lt;br&gt;Grading: letter grade&lt;br&gt;Formerly ADN 235AL. This course applies the course content in a live nursing situation. It includes on-campus/clinical lab practice and testing of required skills in perinatal units, newborn nursery, GYN, and community setting. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
</tbody>
</table>
### Courses of Instruction

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN 35B</td>
<td>Pediatric Nursing</td>
<td>1.5 units</td>
</tr>
<tr>
<td>ADN 35BL</td>
<td>Pediatric Nursing Lab</td>
<td>1.5 units</td>
</tr>
<tr>
<td>ADN 45A</td>
<td>Advanced Medical/Surgical Nursing</td>
<td>2.5 units</td>
</tr>
<tr>
<td>ADN 45AL</td>
<td>Advanced Medical/Surgical Nursing Lab</td>
<td>3.0 units</td>
</tr>
<tr>
<td>ADN 200</td>
<td>Nursing Skills Adjunct Laboratory</td>
<td>0.5 unit</td>
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<tr>
<td>ADN 201</td>
<td>Nursing Skills Adjunct Laboratory</td>
<td>0.5 unit</td>
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<tr>
<td>ADN 202</td>
<td>Nursing Skills Adjunct Laboratory</td>
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<tr>
<td>ADN 203</td>
<td>Nursing Skills Adjunct Laboratory</td>
<td>0.5 unit</td>
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<tr>
<td>ADN 204</td>
<td>Nursing Skills Adjunct Laboratory</td>
<td>0.5 unit</td>
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<tr>
<td>ADN 212</td>
<td>Clinical Practicum I</td>
<td>2.0 units</td>
</tr>
</tbody>
</table>

**ADN 35B - Pediatric Nursing**

1.7 hours lecture
Prerequisite: ADN 12B and ADN 12BL or ADN 20A and CPR certification for health care providers.
Grading: letter grade
Formerly ADN 235B. This course emphasizes Orem’s Self-Care Theory of developmental self-care requisites, health deviations, and universal self-care requisites as it relates to ill children. The content involves the study of illness in children.
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 35BL - Pediatric Nursing Lab**

5.1 hours laboratory
Prerequisite: ADN 20A and CPR Certification.
Corequisite: ADN 35B
Grading: letter grade
Formerly ADN 235BL. The activities for this laboratory course include on-campus practice and application, in acute care hospitals and outpatient settings, of course content in pediatric nursing taught in ADN 235B. The course emphasizes the educative/supportive role of the nurse.
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 45A - Advanced Medical/Surgical Nursing**

2.8 hours lecture
Prerequisite: ADN 35A and ADN 35AL and ADN 35B and ADN 35BL and ADN 21B and ADN 21BL and CPR certification for health care provider.
Grading: letter grade
Formerly ADN 245A. This course emphasizes Orem’s Self-Care Theory, in particular health deviations as it pertaining to the nursing care of acutely ill and critically ill adults. The content involves the study of critical illness in the adult patient.
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 45AL - Advanced Medical/Surgical Nursing Lab**

10.1 hour laboratory
Prerequisite: ADN 35A and ADN 35AL and ADN 35B and ADN 35BL and ADN 21B and ADN 21BL and a CPR certification for health care providers.
Corequisite: ADN 45A. You must first enroll in the corequisite course before you attempt to enroll in this course.
Grading: letter grade
Formerly ADN 245AL. The course emphasizes the educative/supportive role of the nurse, collaboration and communication among the health care team, safe nursing care, and the utilization of all previously learned skills. The activities for this laboratory course include: 1. On-campus lab practice and application 2. Clinical practice in an acute hospital setting and critical care units.
*Transfer Status: Transferable to CSU Only; see counselor for limitations.*

**ADN 200 - Nursing Skills Adjunct Laboratory**

1.7 hours laboratory
Grading: pass/no pass
This course allows self-paced, individualized instruction in basic bedside nursing skills and advanced nursing skills, with supervised practice to improve performance and is designed for students in the RN program, students approved for re-entry, individuals who are currently licensed as LVN’s and/or foreign graduate nurses.

**ADN 201 - Nursing Skills Adjunct Laboratory**

1.7 hours laboratory
Grading: pass/no pass
This course allows self-paced, individualized instruction in first semester basic bedside nursing skills with supervised practice to improve performance.

**ADN 202 - Nursing Skills Adjunct Laboratory**

1.7 hours laboratory
Grading: pass/no pass
This course allows self-paced, individualized instruction in second semester medical and surgical nursing skills with supervised practice to improve performance. This course builds on skills practiced in ADN 201AD.

**ADN 203 - Nursing Skills Adjunct Laboratory**

1.7 hours laboratory
Grading: pass/no pass
This laboratory course allows self-paced, individualized instruction in maternal-child and mental health nursing skills with supervised practice to improve performance.

**ADN 204 - Nursing Skills Adjunct Laboratory**

1.7 hours laboratory
Grading: pass/no pass
This laboratory course allows self-paced, individualized instruction in first semester basic bedside nursing skills with supervised practice to improve performance.

**ADN 212 - Clinical Practicum I**

6.8 hours laboratory
Prerequisite: ADN 11A and ADN 11B. Compliance with all clinical agency health and safety policies is required the first day of the course.
Corequisite: ADN 12A or ADN 12B
Grading: pass/no pass
This course will provide student nurse experiences in approved health care agencies using a Board of Registered Nursing approved curriculum. The purpose of this course is to apply theory and principles taught in the classroom to the clinical setting.
**ADN 221**  
2.0 units  
Clinical Practicum II  
6.8 hours laboratory  
Prerequisite: ADN 12A and ADN 12B. Compliance with all clinical agency health and safety policies is required the first day of the course.  
Corequisite: ADN 21A or ADN 21B  
Grading: pass/no pass  
This course will provide student nurse experiences in approved health care agencies using a Board of Registered Nursing approved curriculum. The purpose of this course is to apply theory and principles taught in the classroom to the clinical setting.

**ADN 222**  
2.0 units  
Clinical Practicum III  
6.8 hours laboratory  
Prerequisite: ADN 21A and ADN 21B. Compliance with all clinical agency health and safety policies is required the first day of the course.  
Corequisite: ADN 22A or ADN 22B  
Grading: pass/no pass  
This course will provide student nurse experiences in approved health care agencies using a Board of Registered Nursing approved curriculum. The purpose of this course is to apply theory and principles taught in the classroom to the clinical setting.

**ADN 225**  
3.0 units  
Pharmacology  
3.4 hours lecture  
Recommended Preparation: BIO 60 or ANAT 1 and PHYSI 1 and READ 82 or completion of Reading proficiency.  
Grading: letter grade  
This is an introductory course into the study and management of commonly prescribed drugs. Drug classifications and prototypes are discussed rather than individual medication. The principles of medication administration including common side-effects and nursing responsibilities is included. Dosage calculation is not included. This course is not open for credit to students who have completed VN 225. ADN 225 and VN 225 are equivalent courses.

**ADN 321A**  
1.5 units  
Women's Health & Advanced Obstetrics  
1.7 hours lecture  
Prerequisite: ADN 20A and CPR certification for health care providers.  
Grading: letter grade  
This is a 4 week course is designed to fulfill the women’s health and advanced obstetrics nursing requirement for the thirty-unit option only. The major focus is nursing care of the adult client in the gynecological surgical units and high-risk obstetrical units, including care of the high-risk infant. It emphasizes the educative supportive role of the nurse.

**ADN 321AL**  
1.5 units  
Women's Health & Adv Obstetrics Lab  
5.6 hours laboratory  
Prerequisite: ADN 20A and CPR certification for health care providers.  
Corequisite: ADN 31A and ADN 321A  
Grading: letter grade or pass/no pass  
This course applies the course content in a live nursing situation. It includes on-campus lab practice, simulation, clinical experience, and testing of required skills in perinatal units, and newborn nursery.

**ADN 322A**  
1.5 units  
Advanced Nursing I-Adult Critical Care  
1.7 hours lecture  
Prerequisite: ADN 321A and ADN 21B and ADN 21BL  
and CPR certification for health care providers.  
Grading: letter grade or pass/no pass  
This course is designed to fulfill the advanced medical/surgical nursing requirements for the 30-unit option student. The major focus is nursing care of the adult patient in the critical care setting. It emphasizes the educative/supportive role of the nurse.

**ADN 322AL**  
1.5 units  
Adv. Nursing I-Adult Critical Care Lab  
5.6 hours laboratory  
Prerequisite: ADN 321A and ADN 21B and ADN 21BL  
and CPR certificate for health care providers.  
Corequisite: ADN 31B and ADN 322A. You must first enroll in the corequisite course before you attempt to enroll in this class.  
Grading: letter grade or pass/no pass  
This course is designed to fulfill the advanced medical/surgical nursing requirements for the 30-unit option only. The major focus is nursing care of the adult patient in the critical care setting. This course will emphasize the educative/supportive role of the nurse.

**ADN 430**  
2.5 units  
NCLEX-RN Preparation Course  
2.8 hours lecture  
Prerequisite: Letter of Eligibility to take NCLEX-RN or Authorization to test (ATI) letter from BRN.  
Grading: letter grade  
This course is designed to prepare the graduate nurse to pass the NCLEX-RN. The content includes medical, surgical, pediatrics, nursing of the child-bearing family, mental health, pharmacology, critical thinking, community health and leadership refresher course.

**ADN 600**  
0.0 unit  
Health Care Learning Center  
16.9 hours laboratory  
Corequisite: Current enrollment in a health care program course.  
Grading: LBCC Non-Graded Course  
This is a non-credit course designed for enhanced assistance for skill attainment in health care programs.

**ADN 610**  
0.0 unit  
Nursing Skills Refresher Laboratory  
0.8 hour laboratory  
Grading: LBCC Non-Graded Course  
This course is designed to provide students with individual and small-group instruction in basic bedside nursing skills and advanced bedside nursing skills. Supervised practice is available on a recurring, as needed, and/or drop-in basis to improve performance levels.
## Courses of Instruction

### NURSING, VOCATIONAL NURSING (VN)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN 810</td>
<td>0.5</td>
<td>Preparation for Nursing&lt;br&gt;0.6 hour lecture&lt;br&gt;Grading: pass/no pass&lt;br&gt;This course is designed for a pre-nursing student. The course supports the pre-nursing student in: the development of effective study habits, test-taking strategies, nursing terms, abbreviations and symbols used in health care, and knowledge of the nursing profession.</td>
</tr>
<tr>
<td>VN 215</td>
<td>6.0</td>
<td>Fundamentals of Nursing&lt;br&gt;3.9 hours lecture, 8.4 hours laboratory, 0.3 hour supplemental learning&lt;br&gt;Recommended Preparation: READ 883 and MATH 805&lt;br&gt;Grading: letter grade&lt;br&gt;This combined lecture/lab course is designed to prepare students to perform basic-fundamental nursing skills required in the care of residents in long-term/skilled nursing facilities. Content includes safety principles, physical care, emotional support and infection control. Upon completion of the course, the student qualifies for the certified nursing assistant (CNA) written and performance examination to be administered at regional testing centers. Students are required to complete 4 hours throughout the course of the semester in a Multidisciplinary Success Center to complete activities and assignments that relate specifically to this course’s content.</td>
</tr>
<tr>
<td>VN 216</td>
<td>1.5</td>
<td>Home Health Aide&lt;br&gt;1.1 hours lecture, 1.7 hours laboratory&lt;br&gt;Prerequisite: Must Possess a valid and current nursing assistant (CNA) state certificate.&lt;br&gt;Grading: letter grade&lt;br&gt;This course meets the requirements set by the California State Department of Public Health Services for a Certified Nursing Assistant to become a Certified Home Health Aide.</td>
</tr>
<tr>
<td>VN 220</td>
<td>4.0</td>
<td>Transition to Vocational Nursing&lt;br&gt;3.4 hours lecture, 3.4 hours laboratory, 0.1 hour supplemental learning&lt;br&gt;Prerequisite: BIO 60 and VN 225 or ADN 225&lt;br&gt;Recommended Preparation: MATH 815 or higher or met the Math college proficiency and READ 82 or READ 83 or met the Reading college proficiency.&lt;br&gt;Grading: letter grade&lt;br&gt;This combined lecture/campus lab course is designed to prepare students for success in the vocational nursing program. Content includes critical thinking &amp; problem solving, communication, cultural competency, professional roles and responsibilities, and developmental levels across the lifespan. Additional topics include learning styles, nursing terminology, nutrition, basic documentation, dosage calculation, and health and safety policies required for VN program admission. Students are required to complete 2 additional hours of Supplemental Instruction in a designated Success Center.</td>
</tr>
<tr>
<td>VN 222</td>
<td>1.0</td>
<td>Intravenous Therapy &amp; Blood Withdrawal&lt;br&gt;0.6 hour lecture, 1.7 hours laboratory&lt;br&gt;Prerequisite: VN 255 or VN 265, or licensed as a vocational nurse (LVN).&lt;br&gt;Grading: pass/no pass&lt;br&gt;This course is designed for instruction and supervised practice of the concepts and techniques of intravenous therapy and blood withdrawal procedures. The course is designed to meet the California Board of Vocational Nursing and Psychiatric Technicians (BVNPT) Intravenous &amp; Blood Withdrawal Certification. This course is designed for students currently in the last semester of the Vocational Nursing Program, or those preparing for licensure.</td>
</tr>
<tr>
<td>VN 225</td>
<td>3.0</td>
<td>Pharmacology&lt;br&gt;3.4 hours lecture&lt;br&gt;Recommended Preparation: BIO 60 or ANAT 1 and PHYSI 1 and READ 82 or completion of Reading proficiency.&lt;br&gt;Grading: letter grade&lt;br&gt;This is an introductory course into the study and management of commonly prescribed drugs. Drug classifications and prototypes are discussed rather than individual medication. The principles of medication administration including common side-effects and nursing responsibilities is included. Dosage calculation is not included. This course is not open for credit to students who have completed ADN 225. ADN 225 and VN 225 are equivalent courses.</td>
</tr>
<tr>
<td>VN 230</td>
<td>3.0</td>
<td>Common Health Deviations 1&lt;br&gt;3.4 hours lecture, 0.1 hour supplemental learning&lt;br&gt;Prerequisite: VN 220, VN 225, and BIO 60.&lt;br&gt;Grading: letter grade&lt;br&gt;Admission to the program is required prior to enrolling in this first clinical course of the vocational nursing program. The course includes the nursing concepts of the nursing process, Orem’s self-care theory, disuse syndrome, skin integrity/wound care, activity and rest, altered nutrition, and risk for injury and fluid and electrolytes. Other topics include pathophysiology and nursing care for patients with diabetes, cardiovascular problems and respiratory disorders. Students are required to complete 2 hours of Supplemental Learning Assistance activities in designated Success Centers.</td>
</tr>
<tr>
<td>VN 230L</td>
<td>3.5</td>
<td>Common Health Deviations 1 Lab&lt;br&gt;11.8 hours laboratory&lt;br&gt;Corequisite: VN 230&lt;br&gt;Grading: pass/no pass&lt;br&gt;This course provides opportunity for nursing students to practice the concepts learned in VN230 in a hospital or sub-acute setting. The campus lab content includes basic data collection and health assessment, preparation of nursing care plan, nursing documentation, oxygen therapy, and medication administration. Compliance with all clinical agency policies is required the first day of the course.</td>
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</tbody>
</table>
### Courses of Instruction

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Title</th>
<th>Hours</th>
<th>Grade Method</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VN 235</td>
<td>3.0</td>
<td>Common Health Deviations 2</td>
<td>3.4 lecture</td>
<td>Letter Grade</td>
<td>VN 230 and VN 230L</td>
<td>This course provides the theoretical basis for the provision of nursing care for patients before and after surgical procedures. The course continues to develop the concepts of nursing process and Orem’s self-care theory that were introduced in VN 230. Additionally, this course covers the nursing concepts of pain management, body image disturbances, and nutritional support. Other topics include pathophysiology and nursing care for patients with health deviations that include the musculoskeletal system, gastrointestinal system, immune system, urinary-renal system, Hepatic-biliary, and infectious diseases.</td>
</tr>
<tr>
<td>VN 235L</td>
<td>3.5</td>
<td>Common Health Deviations 2 Lab</td>
<td>11.8 laboratory</td>
<td>Pass/No Pass</td>
<td>VN 235</td>
<td>This course provides opportunity for nursing students to practice the concepts of medical-surgical units including perioperative nursing care, learned in VN 235. The clinical setting is both medical and surgical and perioperative nursing care units. Topics presented in the campus nursing lab include skills required for care of surgical and medical patients. Compliance with all clinical agency policies is required the first day of the course.</td>
</tr>
<tr>
<td>VN 240</td>
<td>3.0</td>
<td>Mental Health Nursing</td>
<td>3.4 lecture</td>
<td>Letter Grade</td>
<td></td>
<td>This course is designed to assist vocational nursing students with self-development and with acquisition of behaviors needed to provide a helping relationship with their patients. Topics include principles of personality development, psychosocial development, psychopharmacology, common mental health deviations, and major psychiatric illnesses.</td>
</tr>
<tr>
<td>VN 245</td>
<td>2.0</td>
<td>Maternal-Infant Nursing</td>
<td>2.3 lecture</td>
<td>Letter Grade</td>
<td>VN 230 and VN 230L</td>
<td>This course provides instruction in the normal developmental phases of the child-bearing family and the most common related problems. Orem’s self-care theory and the nursing process are continued in the study of prenatal, perinatal, and postpartum nursing care.</td>
</tr>
<tr>
<td>VN 245L</td>
<td>1.0</td>
<td>Maternal-Infant Nursing Lab</td>
<td>3.4 laboratory</td>
<td>Pass/No Pass</td>
<td>VN 245</td>
<td>This course provides opportunity for nursing students to provide prenatal, perinatal, and postnatal nursing care in both hospital and ambulatory care facilities. Campus lab content includes data collection and routine care of the postpartum mother and her newborn. Compliance with all clinical agency policies is required the first day of this course.</td>
</tr>
<tr>
<td>VN 250</td>
<td>2.0</td>
<td>Nursing Care of Children</td>
<td>2.3 lecture</td>
<td>Letter Grade</td>
<td>VN 230 and VN 230L</td>
<td>This course provides instruction in the growth and development of normal children along with the most common health problems of childhood and adolescence. Orem’s self-care theory and the nursing process are applied to the study of health promotion and disease prevention for children and adolescents.</td>
</tr>
<tr>
<td>VN 250P</td>
<td>1.0</td>
<td>Nursing Care of Children Practicum</td>
<td>3.4 laboratory</td>
<td>Pass/No Pass</td>
<td>VN 250</td>
<td>This course provides opportunity for nursing students to provide nursing care for child-rearing families in ambulatory care clinics. Campus lab content includes application of the principles of growth and development. Compliance with all clinical agency health and safety policies is required the first day of the course.</td>
</tr>
<tr>
<td>VN 255</td>
<td>3.0</td>
<td>Common Health Deviations 3</td>
<td>3.4 lecture</td>
<td>Letter Grade</td>
<td>VN 235 and 235L</td>
<td>This course is the third medical-surgical nursing course in the program. Orem’s theory of self-care and the nursing process is continued in the study of vocational nursing concepts. Pathophysiology and nursing care of the following health deviations are studied: female reproductive, male urinary &amp; reproductive, sexually transmitted diseases, basic emergent and cardiac deviations, advanced fluid and electrolyte balance, oncological, hematologic, neuro-sensory, thyroid &amp; adrenal disorders.</td>
</tr>
<tr>
<td>VN 255L</td>
<td>3.5</td>
<td>Common Health Deviations 3 Lab</td>
<td>11.8 laboratory</td>
<td>Pass/No Pass</td>
<td>VN 255</td>
<td>This course provides opportunity for nursing students to become more proficient in the nursing care of patients with medical surgical problems. Students practice with staff vocational and registered nurses to develop beginning competency in the role of the vocational nurse in acute care facilities. Compliance with all clinical agency health and safety policies is required the first day of the course.</td>
</tr>
</tbody>
</table>
| VN 260      | 1.5   | Roles and Responsibilities | 1.7 lecture | Letter Grade | VN 240 | This course is designed to assist the vocational nursing student in the transition to the responsibilities of the graduate vocational nurse. Topics include the ethical, legal, regulatory, leadership, and policy issues that control the practice of vocational nursing in California. Opportunity is provided for career planning, including job skills and application for licensure.
PHILOSOPHY (PHIL)

PHIL 3 3.0 units
Introduction to Issues/Phil, Psych & Religion
3.4 hours lecture
Grading: letter grade or pass/no pass
The course compares and integrates insights from three interrelated disciplines: philosophy, psychology, and religion that correspond to the intellectual, emotional, and spiritual dimensions of human existence. Students learn the four basic foundations of knowledge: reason, authority, the senses, and experience that are used by each of the three disciplines in their search for truth. Following this framework, the course surveys a wide variety of theories and beliefs and offers a critical analysis comparing their similarities and differences. Students explore, discuss, and evaluate the basic positions of most of the world’s great philosophers, psychologists, and theologians from Socrates and Descartes to Sartre, from Freud and Skinner to Maslow, and from Buddha and Jesus to Buber.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PHIL 6 3.0 units
Introduction to Philosophy
3.4 hours lecture
Grading: letter grade or pass/no pass
This introductory philosophy course explores perennial questions in philosophy. It surveys a number of the main areas within philosophy including metaphysics, epistemology, and ethics, with an emphasis on critical thinking and philosophical analysis.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PHIL 6H 3.0 units
Honors Introduction to Philosophy
3.4 hours lecture
Prerequisite: Qualification for the Honors Program
Grading: letter grade or pass/no pass
This introductory philosophy course explores perennial questions in philosophy at an honors level. It surveys a number of the main areas within philosophy including metaphysics, epistemology, and ethics, with an emphasis on critical thinking and philosophical analysis.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PHIL 7 3.0 units
Introduction to Ethics
3.4 hours lecture
Grading: letter grade or pass/no pass
This course examines meta-ethical issues, moral theories, and the application of moral principles. Topics covered include presuppositions of, and challenges to, moral conversations; moral theories from the history of philosophy; and the application of moral theories to contemporary moral issues. Examples of contemporary moral issues are abortion, euthanasia, animal rights, censorship, terrorism, torture, affirmative action, environmentalism, and capital punishment.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PHIL 7H 3.0 units
Honors Introduction to Ethics
3.4 hours lecture
Prerequisite: Qualification for the Honors Program
Grading: letter grade or pass/no pass
This course examines meta-ethical issues, moral theories, and the application of moral principles. Topics covered include presuppositions of, and challenges to, moral conversations; moral theories from the history of philosophy; and the application of moral theories to contemporary moral issues. Examples of contemporary moral issues are abortion, euthanasia, animal rights, censorship, terrorism, torture, affirmative action, environmentalism, and capital punishment.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

VN 265 3.0 units
Common Health Deviation-4
3.4 hours lecture
Corequisite: VN 255
Grading: letter grade
This is normally the last clinical course of the vocational nursing program. Orem’s theory of self-care and the nursing process is continued. Geriatric and Adult health deviations commonly requiring chronic health care are studied. Other topics include leadership and supervisory roles of vocational nurses in long term and restorative or rehabilitation, and disaster preparation.

VN 265L 3.0 units
Common Health Deviation-4 Lab
10.1 hour laboratory
Corequisite: VN 265
Grading: pass/no pass
This course provides opportunity for students to apply nursing theory regarding chronic illness to the care of older adults/Geriatric population in long term care settings, such as nursing homes, skilled nursing, sub-acute, and rehabilitation. Compliance with all clinical agency health and safety policies is required the first day of the course.

VN 266 0.5 unit
Nursing Skills Practice Lab-Adv.
1.7 hours laboratory
Corequisite: VN 266
Formerly VN 266AD. This course provides self-paced and individualized instruction and practice in a campus nursing laboratory setting. Students are encouraged to attend and practice nursing skills, and prepare for post-graduate nursing which includes blood withdrawal for vocational nursing. This course may be offered in the last semester of the vocational nursing program.
PHIL 9 3.0 units
Introduction to Existentialism
3.4 hours lecture
Grading: letter grade or pass/no pass
This course will examine the philosophical thought of existentialist writers such as Kierkegaard, Nietzsche, Sartre, Husserl, Tillich, Heidegger, Camus, and Dostoevsky. Emphasis will be placed on the analysis of recurring themes such as freedom, individuality, meaning and value, and the existence of God. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PHIL 15 3.0 units
Introduction to Political Philosophy
3.4 hours lecture
Grading: letter grade or pass/no pass
This course examines some of the main issues within political philosophy. Topics include the justification of political authority, the ideal state, distributive justice, and the rights and responsibilities of citizens. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PHIL 10 3.0 units
Introduction to Feminist Philosophy
3.4 hours lecture
Grading: letter grade or pass/no pass
This course will examine feminist thought on philosophical issues in metaphysics, epistemology, and axiology. This exploration will examine both feminist theory and practice. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PHIL 16 3.0 units
Introduction to Business Ethics
3.4 hours lecture
Grading: letter grade or pass/no pass
This course will examine ethical issues in business using an interdisciplinary approach or team teaching drawn from Philosophy and Management. Topics will include environmental concerns, the distribution of wealth, informational ethics, privacy and autonomy, and affirmative action. These will be discussed in the context of moral theories such as utilitarianism, deontology, and ethical egoism. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PHIL 11 3.0 units
Critical Thinking
3.4 hours lecture
Grading: letter grade or pass/no pass
This class focuses on the improvement of practical reasoning skills. Students will be required to improve their reasoning skills and will learn to detect and avoid common argument fallacies. Students will develop the knowledge and habits needed to make decisions between conflicting ideas and beliefs. Applications are made to both contemporary and perennial issues, such as current political events, the news media, science vs. pseudoscience and capital punishment. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PHIL 17 3.0 units
Philosophy of Religion
3.4 hours lecture
Grading: letter grade or pass/no pass
This course examines the philosophical themes within the world’s religions. Central questions include: Does God exist? How can God be known? What is God’s nature? Why is there evil? Can conflicting religions still be true? The emphasis will focus on understanding and critically analyzing the claims of the world’s religions. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PHIL 12 3.0 units
Introduction to Logic
3.4 hours lecture
Grading: letter grade or pass/no pass
Introduction to Logic focuses on informal and formal logic. Informal logic will focus on basic concepts in argumentation, the ways that arguments can be erroneous, and various types of inductive reasoning. Formal deductive logic will cover basic concepts of both categorical and sentential logic, including, but not limited to, Venn diagrams, the squares of opposition, truth tables, and natural deduction. All of the tools of formal deductive logic are designed to equip students to assess arguments. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PHIL 18 3.0 units
Symbolic Logic
3.4 hours lecture
Grading: letter grade or pass/no pass
This course is an introduction to the formal techniques of evaluating arguments. The emphasis is on developing symbolic techniques, including sentential and quantification, for representing and evaluating ordinary language arguments. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PHOT 1 2.0 units
The Photographic Vision
2.3 hours lecture
Grading: letter grade or pass/no pass
This course is a speakers and critique series which introduces students to a broad range of photographic visions. The class will also provide the student with the skills necessary to critically evaluate and discuss the photograph. Technical information will be used to give students a deeper understanding of the photographer’s vision. Transfer Status: Transferable to CSU Only; see counselor for limitations.

PHIL 14 3.0 units
Philosophy of Religion
3.4 hours lecture
Grading: letter grade or pass/no pass
This course examines the philosophical themes within the world’s religions. Central questions include: Does God exist? How can God be known? What is God’s nature? Why is there evil? Can conflicting religions still be true? The emphasis will focus on understanding and critically analyzing the claims of the world’s religions. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PHIL 19 3.0 units
History of Photography
3.4 hours lecture
Recommended Preparation: Qualification through the English assessment process at the ENGL 1 level or completion of ENGL 105 or ESL 34 and READ 82. Grading: letter grade or pass/no pass
This course surveys the history of photography from its inception to the present digital age. It explores photography as a form of visual communication in historical, socio-political, cultural and aesthetic contexts. Students will develop visual literacy through
verbal and written analysis. Museum and gallery field trips are required. This course is appropriate for art majors and non-art majors. 

**Transfer Status:** Transferable to UC, CSU; see counselor for limitations.

### PHOT 31 4.0 units

**Basic Photography-Black and White**  
2.3 hours lecture, 6.8 hours laboratory  
Grading: letter grade or pass/no pass  
This course is an introduction to the breadth of photographic practice. Through the development of critical thinking and technical skills, students will learn how to visualize, create, and evaluate photographic images. Techniques covered will include all aspects of camera functions from depth of field to shutter speed, film exposure, film development, and black and white printing; alternative darkroom techniques; digital resources; darkroom safety, and final presentation options. Through critical readings, class discussions, presentations of artists’ work, films, gallery visits, and critiques, students will learn how to evaluate, interpret, and critique photographs and ideas.  

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

### PHOT 32 4.0 units

**Introduction to Digital Photography**  
2.3 hours lecture, 6.8 hours laboratory  
Recommended Preparation: ART 31  
Grading: letter grade or pass/no pass  
This is an introductory course that develops a technical proficiency and an aesthetic awareness of the creative uses of digital photography, including color design theory, composition, perceptual and psychological aspects of color. Through an integration of historical references, critical examination of images and their associated aesthetics, practical experiences, and personal ambition, the student is encouraged to develop a more insightful and sophisticated comprehension of color photography and its contributions to the communicative processes of the visual vocabulary.  

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

### PHOT 33 4.0 units

**Photography Studio Lighting**  
2.3 hours lecture, 6.8 hours laboratory  
Prerequisite: One semester of PHOT 31 or PHOT 32 or ART 81  
Grading: letter grade or pass/no pass  
This is a comprehensive course in studio photography with major emphasis on larger format cameras, studio composition and lighting techniques. The course utilizes primarily digitally based techniques with an overview of traditional methods. It is part of the vocational program in photography as well as the general fine arts curriculum.  

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

### PHOT 34 4.0 units

**Advanced Photography-Applications**  
2.3 hours lecture, 6.8 hours laboratory  
Prerequisite: One Semester of PHOT 32 and PHOT 33  
Grading: letter grade or pass/no pass  
This is a comprehensive studio course for the advanced student of photography. The major emphasis is centered around continuing to build complex problem solving in studio photography for professional uses.  

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

### PHOT 35 3.0 units

**Photography for Publication**  
2.3 hours lecture, 4.5 hours laboratory  
Grading: letter grade or pass/no pass  
This is a comprehensive course in basic and advanced photojournalism techniques. Students will gain practical experience in photography for publication in newspapers and magazines. This class is not open to students registered in or with credit in JOURN 35AD.  

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

### PHOT 37 4.0 units

**Portrait Photography**  
2.3 hours lecture, 6.8 hours laboratory  
Prerequisite: One semester of PHOT 31 or PHOT 32 or ART 81  
Grading: letter grade or pass/no pass  
This is a comprehensive course for the beginning and advanced student of portraiture with a special emphasis on the use of portrait photography as a career or creative path.  

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

### PHOT 38 3.0 units

**Marketing Professional Photo Skills**  
3.4 hours lecture  
Grading: letter grade or pass/no pass  
This course is a study of the application of current practices utilized in marketing professional photographic skills. Topics includes freelance marketing, design and use of a portfolio, and professional photographic business practices.  

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.

### PHOT 39 3.0 units

**Photography on Location**  
2.3 hours lecture, 6.8 hours laboratory  
Prerequisite: One semester of PHOT 31 or PHOT 32 or ART 81  
Grading: letter grade or pass/no pass  
This is a comprehensive occupational course in exterior location photography. The subjects covered will include: documentary, landscape, environmental and product photography for annual reports, stock photography, public relations, advertising and editorial publications.  

**Transfer Status:** Transferable to CSU Only; see counselor for limitations.
### Courses of Instruction

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHOT 40</td>
<td>3.0 units</td>
</tr>
<tr>
<td>Mastering the Photographic Print</td>
<td>2.3 hours lecture, 4.5 hours laboratory&lt;br&gt;Prerequisite: One semester of ART 81 or PHOT 31&lt;br&gt;Recommended Preparation: PHOT 43&lt;br&gt;Grading: letter grade or pass/no pass&lt;br&gt;Formerly PHOT 40AD. This is a comprehensive visual arts course for the advanced student of photography. Emphasis is on crafting high quality digital photographic output which would include prints, portfolios and books. Students will practice digital methods of capture, processing and printing.&lt;br&gt;Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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</tbody>
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<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 41</td>
<td>4.0 units</td>
</tr>
<tr>
<td>Professional Photographic Portfolio</td>
<td>2.3 hours lecture, 6.8 hours laboratory&lt;br&gt;Prerequisite: One semester of PHOT 31 or PHOT 32 or ART 81&lt;br&gt;Recommended Preparation: PHOT 33&lt;br&gt;Grading: letter grade or pass/no pass&lt;br&gt;Formerly PHOT 41AD. This class is a comprehensive course to give the advanced student in photography an opportunity to develop a professional portfolio. Students will work with the instructor to develop a set of assignments appropriate for their career goals. Emphasis is also placed on digital asset management skills such as: metadata, storage and organization of a digitized photographic archive.&lt;br&gt;Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHOT 42</td>
<td>4.0 units</td>
</tr>
<tr>
<td>Experimental Photography Laboratory</td>
<td>2.3 hours lecture, 6.8 hours laboratory&lt;br&gt;Grading: letter grade or pass/no pass&lt;br&gt;Formerly PHOT 42. This course emphasizes experimental solutions to conceptual visual problems in photography. The class is a comprehensive advanced lab course for students enrolled in the photography program or persons who have a background in photography and wish to improve their skills. This class includes both traditional and digital mediums.&lt;br&gt;Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<th>Course Code</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHOT 43</td>
<td>3.0 units</td>
</tr>
<tr>
<td>Photoshop and Digital Image Management</td>
<td>2.3 hours lecture, 4.5 hours laboratory&lt;br&gt;Recommended Preparation: PHOT 31 or PHOT 32 or ART 81 and ART 41&lt;br&gt;Grading: letter grade or pass/no pass&lt;br&gt;This is a comprehensive digital photography course for students who already have basic camera skills and want to learn how to archive, edit and manipulate their imagery. This course is designed to train students in the application of electronic media and its use in manipulating and creating photographic images. The course includes digital capture, editing and output. Topics include: the fundamentals of Color Management, development of a successful digital workflow and the basics of image-bank management.&lt;br&gt;Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<th>Course Code</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHOT 71</td>
<td>2.0 units</td>
</tr>
<tr>
<td>Work Experience — Photography</td>
<td>1.1 hours lecture, 4.6 hours laboratory&lt;br&gt;Corequisite: Concurrent enrollment in at least one additional course in the discipline.&lt;br&gt;Grading: letter grade or pass/no pass&lt;br&gt;Formerly PHOT 71AD. This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to photography. One unit of field work credit will be granted for every 75 hours of paid work or 60 hours of volunteer work per semester. This class includes 1 unit of field work.&lt;br&gt;Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<th>Course Code</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHOT 72</td>
<td>3.0 units</td>
</tr>
<tr>
<td>Work Experience — Photography</td>
<td>1.1 hours lecture, 9.3 hours laboratory&lt;br&gt;Corequisite: Concurrent enrollment in at least one additional course in the discipline.&lt;br&gt;Grading: letter grade or pass/no pass&lt;br&gt;This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to photography. One unit of field work credit will be granted for every 75 hours of paid work or 60 hours of volunteer work per semester. This class includes 2 units of field work.&lt;br&gt;Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<th>Course Code</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHOT 73</td>
<td>4.0 units</td>
</tr>
<tr>
<td>Work Experience — Photography</td>
<td>1.1 hours lecture, 14.1 hours laboratory&lt;br&gt;Corequisite: Concurrent enrollment in at least one additional course in the discipline.&lt;br&gt;Grading: letter grade or pass/no pass&lt;br&gt;This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through employment/volunteer time directly related to photography. One unit of field work credit will be granted for every 75 hours of paid work or 60 hours of volunteer work per semester. This class includes 3 units of field work.&lt;br&gt;Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<th>Course Code</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHOT 281</td>
<td>1.0 unit</td>
</tr>
<tr>
<td>Photography Laboratory</td>
<td>3.4 hours laboratory&lt;br&gt;Grading: letter grade or pass/no pass&lt;br&gt;This class is designed for students enrolled in the photography program or students who have a background in photography and wish to improve their skills. The course emphasizes practical applications in traditional and digital photographic techniques.</td>
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</table>
PHOT 291 1.0 unit
Advanced Photography Laboratory
3.4 hours laboratory
Grading: letter grade or pass/no pass
Formerly PHOT 291A. The course is for advanced students enrolled in the photography program or students who have a background in photography and wish to improve their skills. The course emphasizes practical applications in digital and traditional photographic techniques.

PHOT 681 0.0 unit
Fundamentals of Photography Laboratory
6.8 hours laboratory
Grading: LBCC Non-Graded Course
This class is a lab for the beginning photo student or persons who have a background in photography and wish to improve their skills. The emphasis is on practical applications of image processing, including digital and traditional technologies. This class is intended for senior citizens.

**PHYSICS (PHYS)**

**PHYS 2A** 4.5 units
General Physics
4.5 hours lecture, 2.3 hours laboratory
Prerequisite: MATH 40
Grading: letter grade or pass/no pass
This course is an algebra- and trigonometry based general physics course for students not majoring in physics or engineering. It covers kinematics, dynamics, work and energy, momentum, rotational motion, properties of fluids, simple harmonic motion, waves, temperature and ideal gases, heat and thermodynamics. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**PHYS 2B** 4.5 units
General Physics
4.5 hours lecture, 2.3 hours laboratory
Prerequisite: PHYS 2A
Grading: letter grade or pass/no pass
This course is an algebra- and trigonometry-based general physics course for students not majoring in physics or engineering. The course covers electric charge, Coulomb’s Law, electric field, electric potential, capacitance, electric current, D.C. circuits, magnetism, electromagnetic induction, A.C. circuits, electromagnetic waves, geometric optics, the wave nature of light, the Special Theory of Relativity and introduction to Quantum Theory and models of the atom. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**PHYS 3A** 5.5 units
Physics for Sci. & Eng. — Mechanics
5.6 hours lecture, 2.3 hours laboratory
Prerequisite: MATH 60
Recommended Preparation: PHYS 2A
Grading: letter grade or pass/no pass
This course is the first course of a calculus based sequence for majors in physics, chemistry, mathematics, engineering, astronomy and certain other fields. This course covers kinematics, vectors, dynamics, energy, translational and rotational motion, static fluids, simple harmonic oscillations and mechanical waves. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**PHYS 3B** 4.5 units
Physics for Sci. & Eng. — E & M
4.5 hours lecture, 2.3 hours laboratory
Prerequisite: PHYS 3A
Grading: letter grade or pass/no pass
This course is the second course of a calculus-based sequence for majors in physics, chemistry, mathematics, engineering, astronomy and certain other fields. The course covers electric charge, Coulomb’s Law, electric field, Gauss’s law, electric potential, capacitance, electric current, D.C. circuits, magnetic fields, electromagnetic induction, A.C. circuits, Maxwell’s equations and electromagnetic waves. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**PHYS 3C** 4.5 units
Physics for Sci. & Eng. — Modern Physics
4.5 hours lecture, 2.3 hours laboratory
Prerequisite: PHYS 3A
Grading: letter grade or pass/no pass
This course is part of a calculus-based sequence for majors in physics, chemistry, mathematics, engineering, astronomy and certain other fields. Physics 3C includes thermodynamics, electromagnetic waves, ray optics, wave optics, special relativity, basic quantum theory, wave mechanics, properties of atoms, nuclear structure and nuclear reactions. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**PHYSIOLOGY (PHYSI)**

**PHYSI 1** 5.0 units
Human Physiology
4.5 hours lecture, 3.4 hours laboratory, 0.2 hour supplemental learning
Prerequisite: ANAT 1 or ANAT 41 or BIO 60
Recommended Preparation: CHEM 2 or one year of high school chemistry.
Grading: letter grade or pass/no pass
This course is the study of the functioning of the human body at the molecular, cellular, organ and organ system level. Laboratory experiments reinforce the concepts and allow students to gain experience with standard physiology equipment. This course is designed for pre-nursing, physical therapy, occupational therapy, physical education and other allied health majors. Students are required to complete 3 hours of activities in a Multidisciplinary Success Center to complete activities and assignments that relate specifically to this course’s content. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

**POLITICAL SCIENCE (POLSC)**

**POLSC 1** 3.0 units
Introduction to Government
3.4 hours lecture
Grading: letter grade
This course is an introduction to the principles and issues of government and the political process in a diverse society, emphasizing the government of the United States, as well as California state and local governments. Transfer Status: Transferable to UC, CSU; see counselor for limitations.
**Courses of Instruction**

**POLSC 1H** 3.0 units
Honors Introduction to Government
3.4 hour lecture
Prerequisite: Qualification for the Honors Program
Recommended Preparation: ENGL 1
Grading: letter grade

This course is an introduction to the principles and issues of government and the political process in a diverse society, emphasizing the U.S. government and California state and local governments.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**POLSC 2** 3.0 units
Comparative Government
3.4 hour lecture
Grading: letter grade or pass/no pass

This course introduces students to analytical methods used to compare political systems and governments. It examines the politics of selected states from among industrial and post-industrial democracies, developing countries, and communist and post-communist systems. Issues given particular attention include democratization, economic development, ideologies, political culture, trans-state organizations, globalization, and political change.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**POLSC 3** 3.0 units
Issues of American Government
3.4 hour lecture
Grading: letter grade or pass/no pass

This course is an intensive study of current issues involving the basic concepts of American democracy, public policy, federalism, government finance, pressure groups, legislative, executive and judicial powers, civil rights and liberties, and international politics. This course is highly recommended for political science majors at CSU Long Beach.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**POLSC 4** 3.0 units
World Politics
3.4 hour lecture
Grading: letter grade or pass/no pass

This course is an introduction to recent and contemporary international relations, foreign policy-making institutions, and the politics of selected foreign states. This class satisfies one lower division social science requirement for majors in political science, history, sociology, humanities, physical sciences and life sciences at UCLA.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**POLSC 9** 3.0 units
The Constitution, Law and Society
3.4 hour lecture
Grading: letter grade or pass/no pass

This course is a general survey of the United States Constitution and the United States legal system. Included is the study of the origins, judicial interpretations, and societal effects of the constitution. The course emphasizes the legal system with specific focus on the role of the United States Supreme Court in issuing decisions of a societally relevant and interdisciplinary nature. The controversial role of law in political and social issues is examined with regard to all areas of United States Supreme Court jurisdiction. Law is analyzed as an integral part of the political process and its effects on society.

*Transfer Status: Transferable to UC, CSU; see counselor for limitations.*

**PSYCHOLOGY (PSYCH)**

**PSYCH 1** 3.0 units
Introduction to Psychology
3.4 hour lecture
Grading: letter grade or pass/no pass

This course is an introduction to scientific exploration of human psychology and behavior. The course includes a survey of the historical, physiological, and social influences on behavior, emphasizing development, learning, motivation, perception, cognition, mental...
Courses of Instruction

Physiological Foundations of Psychology
3.4 hours lecture
Prerequisite: PSYCH 1
Grading: letter grade
This course is an introduction to physiological aspects of human behavior including the central and peripheral nervous system and the endocrine system. It explores the physiological basis for cognition, consciousness, movement, motivation, learning, sensation, perception, memory, sex drive, addiction and psychopathology. This is an essential course for psychology majors, and health professionals would find this course very useful.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PSYCH 6 3.0 units

Personal and Social Development
3.4 hours lecture
Grading: letter grade or pass/no pass
This course involves the application of psychological principles to everyday life, emphasizing how to cope with life’s challenges and realize your full potential. Stress is placed on self-awareness, self-management, interpersonal communication and way to improve the quality of interpersonal relationships.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PSYCH 4 3.0 units

Research Methods for Psychology
3.4 hours lecture, 3.4 hours laboratory
Prerequisite: PSYCH 1
Recommended Preparation: STAT 1
Grading: letter grade or pass/no pass
The course provides a basic understanding of the scientific method, research designs, and statistical tests used in psychological investigation. Students perform a literature review, design an original research study, collect and analyze data, and write an APA-style research report.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PSYCH 2 4.0 units

Psychotherapy
3.4 hours lecture
Prerequisite: PSYCH 1
Grading: letter grade or pass/no pass
This class surveys abnormal behaviors, including anxiety disorders, mood disorders, schizophrenia and delusional disorders, substance use disorders, gender dysphoria and sexual disorders, eating and sleep disorders, disorders that begin in childhood, disorders related to aging, personality disorders, ways of determining abnormality, causes and treatment of disorders.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PSYCH 14 3.0 units

PSYCH 33 3.0 units

Psychology of Personality
3.4 hours lecture
Grading: letter grade or pass/no pass
This course defines personality and explains historical and contemporary approaches to explaining and assessing personality similarities and differences among people. Research is presented demonstrating the extent to which personality factors can predict the behavior of individuals. Cross cultural influences on personality development are examined.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

PSYCH 33 3.0 units

Public Administration
Introduction to Public Administration
3.4 hours lecture
Grading: letter grade or pass/no pass
This is an introductory level course which addresses the principles and practices of public administration in national, state and local government agencies. The course outlines basic organizational patterns, internal
management, administrative functions and responsibilities.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**RADIO AND TELEVISION (R_TV)**

**R_TV 1**  
Introduction to Broadcasting  
3.4 hours lecture  
Grading: letter grade  
Introduction to Broadcasting explores the evolution of mass media and its impact on society. The class will analyze methods the media uses to persuade the consumer and become an educated viewer and evaluate their tactics.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**R_TV 2**  
Intro to Careers in Radio & Television  
2.3 hours lecture  
Grading: letter grade  
This course explores the various occupations in the radio and television field, including broadcast, cable, industrial and multimedia production. Students will investigate employment opportunities, as well as the required skills and personal qualifications necessary for employment in this element of the entertainment industry. Guest speakers will discuss current industry issues and standards.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**R_TV 3**  
Using MacIntosh Comp Entertainment Indus  
2.3 hours lecture, 2.3 hours laboratory  
Grading: letter grade  
This course is designed for students to develop current computer operation skills and equipment systems related to the entertainment industry. No previous computer knowledge is necessary. It covers the basic use of hardware and certain software, Internet use, word processing, spreadsheet, database use, communications applications, and basic digital audio and video production. The course will explore specific examples of how various applications are used in the entertainment industry.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**R_TV 4**  
Writing and Production Planning  
3.4 hours lecture  
Grading: letter grade  
This course examines pre-production principles and procedures common to all productions, emphasizing scripting and other writing skills unique to the radio, television, and film industry. It also explores budgeting, union, and legal issues.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**R_TV 8**  
Introduction to Media Production  
2.3 hours lecture, 2.3 hours laboratory  
Grading: letter grade  
This course introduces students to the basic principles of production, including operation of equipment and the process of developing a program from the original idea to final editing.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**R_TV 12**  
Television Lighting  
2.3 hours lecture, 2.3 hours laboratory  
Grading: letter grade or pass/no pass  
Students will study the practical application of the theories of television lighting. This course includes the following: 1) using lighting materials and equipment, 2) the aesthetics of light, 3) experimenting with light and color, 4) lighting for effects, 5) lighting for studio production, 6) lighting for field production, 7) lighting for single and multiple cameras.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**R_TV 13AD**  
Television Production  
2.3 hours lecture, 2.3 hours laboratory  
Grading: letter grade or pass/no pass  
This course allows the student the opportunity to participate in the creation and production of television program material. Students will produce, direct and crew a variety of projects, such as news, interviews, commercials, dramas, comedies and instructional programs.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**R_TV 14AD**  
Electronic Field Production  
2.3 hours lecture, 2.3 hours laboratory  
Grading: letter grade or pass/no pass  
This course is a study and application of the technical aspects of video, film and multimedia production in the field. Special attention will be dedicated to successful production strategies necessary for the unique problems associated with shooting in the field, such as equipment selection, lighting, audio and the environment. Issues related to acquisition format, such as film versus tape and analog versus digital, will be explored. Students will shoot projects in the field as “stand-alone” productions and as elements for edited productions. Editing will be covered as it relates to field production.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.

**R_TV 15AC**  
Advanced Television Production  
2.3 hours lecture, 2.3 hours laboratory  
Recommended Preparation: Audition  
Grading: letter grade  
This class explores the creation and production of television program material with an emphasis on the quality of the finished product. Projects which students produce, direct and crew will be largely of their own choosing.  
Transfer Status: Transferable to CSU Only; see counselor for limitations.
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<tr>
<th>Course Code</th>
<th>Units</th>
<th>Title</th>
<th>Hours per week</th>
<th>Grade Type</th>
<th>Description</th>
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<tbody>
<tr>
<td>R_TV 21</td>
<td>3.0</td>
<td>Radio Production</td>
<td>3.4 lecture, 1.1 laboratory</td>
<td>Letter grade</td>
<td>This course features the creation and production of radio program material. Projects include: disc jockey shows, news programs, interviews, commercials, editing, microphone set-up and audio board operation. Other aspects of radio station operation will be covered, such as management, sales, audience analysis and ratings. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>R_TV 25AD</td>
<td>2.5</td>
<td>Radio Activity</td>
<td>2.3 lecture, 2.3 laboratory</td>
<td>Letter grade or pass/no pass</td>
<td>Formerly R_TV 25AD. This course provides the opportunity and responsibility to work in a variety of jobs involved in the operation of one of the college’s two internet radio stations. Students will work “on air” and behind the scenes. Hours outside of the class time are arranged in consultation with the instructor. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>R_TV 30AD</td>
<td>2.5</td>
<td>Broadcast Newswriting</td>
<td>2.3 lecture, 2.3 laboratory</td>
<td>Letter grade</td>
<td>Students will learn to write, re-write and edit stories for radio, TV, or Internet distribution. Students will gain experience in discovering and researching news. Topics covered will include use of sound tracks, visuals, interviews, and the “local angle” or “human interest element.” Some stories may be incorporated into the weekly student TV news show. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>R_TV 34AD</td>
<td>2.5</td>
<td>Music Video Production</td>
<td>2.3 lecture, 2.3 laboratory</td>
<td>Letter grade</td>
<td>Recommended Preparation: R_TV 14AD. This course provides an in depth exam of the components necessary to produce a music video, including completion of a camera ready production proposal and a script of selected projects. Selected projects may be produced. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>R_TV 35AD</td>
<td>2.5</td>
<td>Television Activity</td>
<td>2.3 lecture, 2.3 laboratory</td>
<td>Letter grade or pass/no pass</td>
<td>This course provides the opportunity and responsibility to work in a variety of jobs involved in the video taping of various college events and/or projects or student selected projects in the television studio. Projects may be broadcast on the college cable channel and/or used in the student news show. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>R_TV 36AD</td>
<td>2.5</td>
<td>Broadcast News Production</td>
<td>2.3 lecture, 2.3 laboratory</td>
<td>Letter grade or pass/no pass</td>
<td>This course provides an opportunity and responsibility to work in a variety of jobs involved in the video taping of various college events and/or projects or student selected projects in the television studio. Projects may be broadcast on the college cable channel and/or used in the student news show. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>R_TV 37</td>
<td>3.0</td>
<td>Radio/Television Management and Sales</td>
<td>3.4 lecture</td>
<td>Letter grade</td>
<td>This course provides an overview of the basic elements of broadcast and cablecast management. Topics covered include: advertising and sales techniques, ratings, station promotion, budgets, FCC policies, franchise agreements and negotiations, scheduling, contest considerations, liability elements and people skills. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>R_TV 40AD</td>
<td>2.5</td>
<td>On-Camera Performance</td>
<td>2.3 lecture, 2.3 laboratory</td>
<td>Letter grade</td>
<td>Students will learn various aspects of performance techniques as applied to working in front of a camera. Performances are video-taped and analyzed which will help the student understand what is necessary in the preparation of audition material. Students will gain knowledge about each area responsible for a TV production. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>R_TV 70</td>
<td>3.0</td>
<td>Fieldwork in Radio/Television</td>
<td>3.4 lecture</td>
<td>Letter grade</td>
<td>Students will participate in gathering information, writing, editing and producing news, sports, editorials, and weather segments. Students will work as managing editors, operate equipment, and edit video packages. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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<tr>
<td>R_TV 71AD</td>
<td>2.0</td>
<td>Work Experience: Radio and Television</td>
<td>1.1 lecture, 4.6 laboratory</td>
<td>Letter grade or pass/no pass</td>
<td>This course consists of discussions regarding work experience objectives, career goals, employment adjustments and issues encountered on the job. It also involves vocational learning experiences through practical training in the Radio/Television/Film industry. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
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Courses of Instruction

READ 83 4.0 units
Power Reading
4.5 hours lecture, 0.2 hour supplemental learning
Prerequisite: Qualification through the LBCC assessment process for Reading or successful completion (C or higher or Pass) of READ 883.
Grading: letter grade or pass/no pass
This course focuses on power reading strategies, analysis of written discourse, and application of flexible reading techniques to personal, professional, and academic reading. It is designed for those with strong comprehension skills. Students are required to complete 3 hours of Supplemental Learning Assistance activities in designated Success Centers.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

READ 84 3.0 units
Analytical Reading
3.4 hours lecture
Prerequisite: Reading proficiency met through the LBCC assessment process or successful completion of READ 82 or READ 83.
Grading: letter grade or pass/no pass
This course provides instruction in the strategies needed for logical thinking, critical reading and analysis of argumentative writing. Emphasis is placed on the ability to analyze and evaluate written material by establishing claim and support, identifying patterns of logic and reason, and determining point of view and authority. READ 84 enables students to gain efficiency with the challenges of critical reading and analytical thinking in all academic disciplines.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

READ 85 3.0 units
Vocabulary Building
3.4 hours lecture
Grading: letter grade or pass/no pass
This course provides a study of methods to expand general word knowledge and build academic vocabulary across the disciplines emphasizing conceptual development and effective communication. The course is specifically designed to increase personal vocabulary skills and stimulate appreciation of the English language.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

READ 880 4.0 units
Reading Basics
4.5 hours lecture, 0.2 hour supplemental learning
Grading: pass/no pass
This course is an initiation to reading fundamentals for emergent readers. The course creates pathways to literacy and comprehension. Through active reading, decoding and word recognition, and vocabulary development.

READ 881 4.0 units
Reading Essentials
4.5 hours lecture, 0.2 hour supplemental learning
Prerequisite: Qualification through the LBCC assessment process for Reading or successful completion (Pass) of READ 880.
Grading: pass/no pass
This course focuses on essential reading skills and strategies with an emphasis on comprehension, vocabulary, and active reading. Comprehension skills

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Courses of Instruction

are developed through the use of narrative and expository text. To help gain efficiency with comprehension, students are required to complete 3 hours during the semester in a Success Center focusing on activities related to the course content.

REAL 882 4.0 units
Reading Development
4.5 hours lecture
Prerequisite: Qualification through the LBCC assessment process for Reading or successful completion (Pass) of READ 881.
Grading: pass/no pass
This course develops essential reading concepts. The course focuses on literal and inferential comprehension strategies with continued building of vocabulary skills. Exposure to longer text selections provides opportunities for applying academic reading skills.

REAL 883 4.0 units
Reading Improvement
4.5 hours lecture, 0.2 hour supplemental learning
Prerequisite: Qualification through the LBCC assessment process for Reading or successful completion (Pass) of READ 882.
Grading: pass/no pass
For students who have previously acquired essential reading skills, READ 883 reinforces instruction in reading improvement strategies and vocabulary enrichment, emphasizing the development of critical comprehension. Opportunities to apply the components of critical comprehension in a variety of genres emphasize both deeper and broader thought processes. Students are required to complete 3 hours of learning activities in a Success Center over the course of the semester.

REAL ESTATE (REAL)

REAL 78 3.0 units
Real Estate Economics
3.4 hours lecture
Grading: letter grade
His course covers trends and factors affecting the value of real estate, the nature and classification of real estate economics, the development of property, construction and subdivision, economic values and real estate evaluation, real estate cycles and business fluctuations, residential market trends, and real property trends. This course may be used as an elective course for persons seeking a California Real Estate Salesperson license and is a required course for persons seeking a California Real Estate Broker license.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

REAL 80 3.0 units
Real Estate Principles
3.4 hours lecture
Grading: letter grade
This course covers the basic laws and principles of California real estate. This class also provides background and terminology for homeowners, landlords, tenants, persons preparing for advanced study in specialized real estate courses, and those preparing for real estate license exams. This course is one of three courses required for persons seeking a Real Estate Salesperson license and is an elective course for persons seeking a Real Estate Broker license.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

REAL 81A 3.0 units
Real Estate Practice
3.4 hours lecture
Grading: letter grade
This course covers practices in real estate sales and brokerage, including prospecting, listing, advertising, financing, sales techniques, escrow, and ethics. This course is one of the required courses for persons seeking a Real Estate Salesperson license or a Real Estate Broker license.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

REAL 84 3.0 units
Mortgage Brokering/Lending in California
3.4 hours lecture
Recommended Preparation: REAL 80
Grading: letter grade
This course covers an introduction to mortgage brokering operations and orients students toward a career in the field. Topics covered include types of loans, loan processing, lending regulations, underwriting, loan submission, quality control, understanding credit information, loan packaging, and loan documents.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

REAL 85 3.0 units
Real Estate Appraisal
3.4 hours lecture
Grading: letter grade
This course covers principles and procedures of single-family, residential appraisal and report-writing. Successful completion is required for a California Real Estate Broker’s license, satisfies up to 54 hours of the 150 hours required for a California Trainee or Residential Appraisal license, and can be used as an elective for a California Real Estate Salesperson license. The course also provides 51 hours of continuing education credit for the California Appraiser license renewal.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

REAL 86 3.0 units
Advanced Real Estate Appraisal
3.4 hours lecture, 1.1 hours laboratory
Recommended Preparation: REAL 80 and REAL 85
Grading: letter grade
This course covers principles and procedures of single-family, residential appraisal and report-writing. This course is one of the required courses for persons seeking a California Real Estate Salesperson license and is a required course for persons seeking a California Real Estate Broker license.
Transfer Status: Transferable to CSU Only; see counselor for limitations.
Courses of Instruction

REAL 87 3.0 units
Real Estate Finance
3.4 hours lecture
Grading: letter grade
This course is an introduction and analysis of real estate financing and lending policies. The course also introduces students to problems that may arise in the areas of financing residential, apartment, commercial and special purpose properties. The methods of financing properties are emphasized.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

REAL 92A 3.0 units
Escrows and Land Titles
3.4 hours lecture
Grading: letter grade
This competency-based course prepares students with skills for entry-level positions in an escrow office or to improve their knowledge in real estate. Focus is on understanding the escrow process and accurately completing necessary documents. This course may be used as an elective course for persons applying for the California Real Estate Salesperson or Real Estate Broker license.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

REAL 253 3.0 units
Property Management
3.4 hours lecture
Grading: letter grade
This course is a practical approach to the principles and practices of managing apartments and other income properties. Topics include leasing, owner and manager objectives, management plans, landlord-tenant law, evictions, prohibited discrimination, property maintenance; management office administration, and human relations. This course can be used as an elective course by persons applying for the Real Estate Salesperson’s and Broker’s licenses with the California Department of Real Estate.

SIGN LANGUAGE (SIGN)

SIGN 1A 3.0 units
American Sign Language, Beginning 1
3.4 hours lecture
Grading: letter grade or pass/no pass
This is a basic course in the instruction and practice of American Sign Language (ASL) and fingerspelling. Emphasis will be placed on the development of vocabulary, grammar, syntax, expressive, and receptive skills. This course includes an overview of the history of sign language and Deaf culture.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

SIGN 2A 3.0 units
American Sign Language, Intermediate 1
3.4 hours lecture
Prerequisite: SIGN 1A and SIGN 1B.
Grading: letter grade or pass/no pass
This is a course in intermediate instruction for the continuing student of ASL and fingerspelling. The purpose is to increase signing vocabulary, emphasizing practice in improving expressive and receptive conversational skills with the goal of increasing smoothness, clarity and speed of signing. The history of sign language and Deaf culture will also be discussed.
This course is formally known as COMDI 3A.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

SIGN 2B 3.0 units
American Sign Language, Intermediate 2
3.4 hours lecture
Prerequisite: SIGN 1A and SIGN 1B.
Grading: letter grade or pass/no pass
This is a course in intermediate instruction for the continuing student of ASL and fingerspelling. The purpose is to increase signing vocabulary, emphasizing practice in improving expressive and receptive conversational skills with the goal of increasing smoothness, clarity, and speed of signing. The history of sign language and Deaf culture will also be discussed.
This course is formally known as COMDI 3B.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

SIGN 633 0.0 unit
Beginning Speech Reading (Lip Reading)
2.3 hours laboratory
Grading: LBCC Non-Graded Course
This is a course in learning lip reading techniques for the hearing impaired. Special attention is given to communication difficulties of the hearing impaired. This course is formally known as COMDI 633.

SIGN 634 0.0 unit
Intermediate Speech Reading (Lip Reading)
2.3 hours laboratory
Grading: LBCC Non-Graded Course
This course provides students with an intermediate degree of proficiency in lip reading skills to enhance communication for the hearing impaired. This course is formally known as COMDI 634.

SOCIAL SCIENCE (SOCSC)

SOCSC 1 3.0 units
Comparative World Cultures
3.4 hours lecture
Grading: letter grade or pass/no pass
This course compares and contrasts major civilizations using interdisciplinary approach or team teaching drawn from the Humanities and the Social Sciences. It covers the study of two or more major cultures to determine how these human communities met their basic biological, material, religious and intellectual needs, and experienced both continuity and change through time. This course is not open for credit to students who have
completed Humanities 1H, Humanities 1, or Social Science 1H.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

SOCSC 1H 3.0 units
Honors Comparative World Cultures
3.4 hours lecture
Prerequisite: Qualification for the Honors Program
Grading: letter grade or pass/no pass
This course compares and contrasts major civilizations using an interdisciplinary approach or team teaching drawn from the Humanities and the Social Sciences. These teams study two or more major cultures to determine how these human communities met their basic biological, material, religious and intellectual needs, and experienced both continuity and change through time. This course is part of the Honors Curriculum. This course is not open for credit to students who have completed Humanities 1, Humanities 1H, or Social Science 1.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

SOCSC 7 3.0 units
American Pluralism and Identity
3.4 hours lecture
Grading: letter grade or pass/no pass
This course explores the multicultural nature of American society from a Humanities and Social Sciences perspective. The course examines how ethnic groups in America have constructed artistic, literary, musical, philosophical and religious identities based on their traditions and experiences and seeks to understand the United States as a common culture. Using the Social Sciences to compare and contrast the origins, living conditions and experiences of America's constituent populations, the course analyzes the complexity of the processes effecting the interaction of the American people. Not open to students registered in or with credit in HUMAN 7.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

SOCIOLOGY (SOCIO)

SOCIO 1 3.0 units
Introduction to Sociology
3.4 hours lecture
Grading: letter grade or pass/no pass
This course introduces students to the study of human behavior through an understanding of social organization. Topics include the role of culture, the development of personality, the function of group life and social institutions, the social processes and social interaction, and factors in social change and collective behavior.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

SOCIO 1H 3.0 units
Honors Introduction to Sociology
3.4 hours lecture
Prerequisite: Qualification for the Honors Program
Grading: letter grade or pass/no pass
This course introduces students to the study of human behavior through an understanding of social organization. Topics include the role of culture, the development of personality, the function of group life and social institutions, the social processes and social interaction, and factors in social change and collective behavior.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

SOCIO 2 3.0 units
Modern Social Problems
3.4 hours lecture
Recommended Preparation: SOCIO 1
Grading: letter grade or pass/no pass
The scope of the course will include identification and analysis of contemporary social problems in the U.S., using the theories and methodology of sociology. Among the topics considered are the environment, crime, poverty, sexism, racism, sexuality, social change, addiction, abuse, and alienation. The role of social institutions will also be considered.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

SOCIO 11 3.0 units
Race & Ethnic Relations in the U.S.
3.4 hours lecture
Recommended Preparation: Enrollment in or Completion of SOCIO 1
Grading: letter grade
The sociological study of diverse racial and ethnic groups in the U.S., including Latino, Asian American, African American and Native American sub-groups is covered. The course also includes an analysis of migration patterns, stratification, gender, social movements and inter- and intra-group relations. An examination of how social, political, economic and historical forces affect contemporary race and ethnic relations will be included.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

SOCIO 13 3.0 units
Sociology of Latinos
3.4 hours lecture
Grading: letter grade
This course is a survey of the sociology of Latinos in the United States, with a focus on their contemporary cultural and socio-economic conditions. Study will include a review of the immigration patterns of various Latino groups and their experiences with important social processes and institutions in the U.S. The effects of globalization, immigration status, race, class, gender, and Latino responses to discrimination will also be examined.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
SOCIO 40 3.0 units

Sociology of the Family
3.4 hours lecture
Recommended Preparation: SOCIO 1
Grading: letter grade or pass/no pass
This course will examine micro and macro sociological influences on, preparation for, and effects of contemporary family life, especially in the U.S. Considering options, problems and challenges of each, the following will be covered: mate selection, relationships, love, marriage, parenting, divorce, diversity, gender, and sexuality. Transfer Status: Transferable to UC, CSU; see counselor for limitations.

STATISTICS (STAT)

STAT 1 3.0 units

Elementary Statistics
3.4 hours lecture
Prerequisite: MATH 130, 130B or one year high school intermediate algebra with a grade of B or better as reflected by the second semester grade or qualification through the LBCC assessment process for Math.
Grading: letter grade
This course will introduce students to the major concepts and tools for collecting and describing data (descriptive statistics), and drawing conclusions from data (inferential statistics). Transfer Status: Transferable to UC, CSU; see counselor for limitations.

STAT 1H 3.0 units

Honors Elementary Statistics
3.4 hours lecture
Prerequisite: MATH 130, 130B or high school intermediate algebra with a grade of B or better as reflected by the second semester grade, or qualification through the LBCC assessment process for Math, and qualification for the Honors Program.
Grading: letter grade
This course will introduce students to the major concepts and tools for collecting and describing data (descriptive statistics), and drawing conclusions from data (inferential statistics). Transfer Status: Transferable to UC, CSU; see counselor for limitations.

TECHNOLOGY (TEC)

TEC 10 1.0 unit

Introduction to Engineering Technology
1.1 hours lecture
Grading: letter grade or pass/no pass
This course explores the varied branches of engineering technology, the functions of an engineer technologist, and the differences between a traditional engineering pathway and an engineering technology pathway. Students will explore industries in which an engineering technologist would be employed and explore effective strategies for students to reach their full academic potential. The course will cover an introduction to the methods and tools of engineering technology, problem solving and design, current issues in society, and ethics as related to engineering technology. Students will be introduced to communication skills pertinent to engineering technology professions. Transfer Status: Transferable to CSU Only; see counselor for limitations.

TEC 60 4.0 units

Computer Aided Design and Drafting (CADD)
3.4 hours lecture, 3.4 hours laboratory
Recommended Preparation: ARCHT 60 or ARCHT 61 or DRAFT 51A
Grading: letter grade
Formerly TEC 60AD. This course introduces students to new and emerging software and equipment technologies as they become integrated in varied technical design fields. Classes may present Computer Aided Drafting and Design, CADD, parametric software programs, presentation graphics and/or various 3D printing technologies. The course is designed to enhance and upgrade the software and hardware skills of mechanical engineers, architects, interior designers, civil engineers and students employed in other design related occupations. Transfer Status: Transferable to CSU Only; see counselor for limitations.

TEC 211 3.0 units

Print Reading for Industry
3.4 hours lecture
Grading: letter grade or pass/no pass
This course introduces designers/drafters to the theory, techniques, and application of mechanical drawing systems in the fields of engineering technology, engineering, and mechanical design as related to manufacturing industries such as aerospace and automotive. The course addresses industry standards required to establish universal interpretation of technical drawings to ensure the consistency of manufactured goods and assembled products. Transfer Status: Transferable to CSU Only; see counselor for limitations.

THEATRE ARTS (TART)

TART 1 3.5 units

Acting 1-Introduction to Acting
3.4 hours lecture, 2.3 hours laboratory
Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.
Grading: letter grade or pass/no pass
This course introduces the student to the fundamental elements and techniques of acting. The student actor will explore the theory and practice of acting through acting exercises, improvisation, theatre games, solo and two-person or group scenes. The course also explores the concepts of acting through relaxation, concentration, sensory awareness and imagination as the student develops both an understanding and appreciation of acting for the theatre. Transfer Status: Transferable to UC, CSU; see counselor for limitations.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TART 1B</td>
<td>Movement</td>
<td>2.0</td>
<td>This course is an introduction to the use of the human body as an instrument of expression. The course provides for the study and application of the basic theories and principles of stage movement through the use of lecture and class exercise.</td>
</tr>
<tr>
<td>TART 1C</td>
<td>Voice</td>
<td>2.0</td>
<td>The course provides a lucid view of the voice as an instrument of human communication. Through a series of exercises the student will free, develop and strengthen their voice. The student will practically realize an actor’s sensibilities through vocal expression.</td>
</tr>
<tr>
<td>TART 1D</td>
<td>Improvisation</td>
<td>2.0</td>
<td>The course will consist of an exploration of the various applications of theatrical improvisation. Drawing from both playwrights, published routines and imaginations, the actor will create fully realized characters, develop and analyze scenes. Mental agility, spontaneity, thinking on your feet and stage confidence will be emphasized.</td>
</tr>
<tr>
<td>TART 2</td>
<td>3.5</td>
<td>This course is an investigation and development of a character by students that further strengthens techniques of personalization, role analysis and character motivation while including such disciplines as sense and emotional memory and improvisation. Additionally, investigation of the physical life of a character is emphasized, together with the technical and imaginative development of voice and body skills as a means of achieving fully realized characterizations (continued scene study, utilizing the works of major playwrights within the last hundred years).</td>
<td></td>
</tr>
<tr>
<td>TART 2A</td>
<td>The Spoken Text</td>
<td>2.0</td>
<td>This course includes class exercises and lectures.</td>
</tr>
<tr>
<td>TART 2B</td>
<td>The Spoken Text</td>
<td>2.0</td>
<td>Students will engage in the preparation and presentation of a wide range of spoken texts. The goal is to free, develop and strengthen the student actor’s voice so that the actor’s unique sensibilities may be fully expressed through proper vocal use.</td>
</tr>
<tr>
<td>TART 2C</td>
<td>Movement, Mime and Mask</td>
<td>2.0</td>
<td>This course is an advanced application of the theory and principles of stage movement within specialized areas, such as mime, mask, theatrical sword fighting, characterization, juggling and period movement styles. This course includes class exercises and lectures.</td>
</tr>
<tr>
<td>TART 2D</td>
<td>Movement, Mime and Mask</td>
<td>2.0</td>
<td>This course is an advanced application of the theory and principles of stage movement within specialized areas, such as mask characterization, period movement styles and stage combat.</td>
</tr>
</tbody>
</table>
TART 3A
Acting 3-Scene Study
3.5 units
3.4 hours lecture, 2.3 hours laboratory
Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.
Recommended Preparation: TART 2 and TART 25
Grading: letter grade or pass/no pass
This course emphasizes specific performance skills and acting techniques utilizing classical scene selections, emphasizing Western playwrights of the 16th and 17th century, to heighten the intensity of the acting experience for the serious theatre student.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

TART 3B
Acting 3-Scene Study
3.5 units
3.4 hours lecture, 2.3 hours laboratory
Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.
Grading: letter grade or pass/no pass
This course focuses on individual studies and exercises to develop freedom and imagination in the preparation and performance of classical and contemporary dramatic material; scenes, cuttings and short plays.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

TART 12
Beginning Acting
3.5 units
3.4 hours lecture, 2.3 hours laboratory
Grading: letter grade or pass/no pass
For the student for whom acting is an avocation, this course introduces the student to beginning acting techniques and theatrical creative process. The student actor discovers and explores in him/herself qualities and experiences which are legitimate dimensions of the role he/she is creating. The course explores theatrical concepts through relaxation, concentration, sensory awareness, imagination, acting games and acting exercises as the student acquires basic insights into acting for the theatre.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

TART 13
Intermediate Acting
3.5 units
3.4 hours lecture, 2.3 hours laboratory
Recommended Preparation: TART 25
Grading: letter grade or pass/no pass
Formerly TART 13A. For the student for whom acting is an avocation, this course is an investigation and development of a character that further strengthens techniques of personalization, character analysis and motivation while including such theatrical disciplines as sense memory, emotional memory and improvisation. Additionally, continued, advanced theatrical game playing, (theatre sports and improv games) is explored. Technical and imaginative development of voice and body skills are enhanced utilizing the works of major playwrights within the last hundred years.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

TART 25
Introduction to Theatre
3.0 units
3.4 hours lecture
Grading: letter grade or pass/no pass
This course provides a critical analysis of theater from an audience perspective. The elements of play production from dramatic structure, to the final presentation will be explored. Topics include reading, lectures, discussions on the theory and practice of acting, directing, producing, styles, design spectacle, and cultural background. Field trips and performance attendance is required for this course.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

TART 30
Introduction to Dramatic Literature
3.0 units
3.4 hours lecture
Grading: letter grade or pass/no pass
Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.
Recommended Preparation: TART 3A or 3B
Grading: letter grade or pass/no pass
This introduction to the dramatic literature of the Western world, including American drama from early beginnings to present day, examines dramatic structures, concepts, styles and themes of a selection of representative plays. The influence of the theatre and dramatic literature as a social and cultural force of change through the ages is also explored.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

TART 39AD
Theatre Practicum
1.0 unit
4.5 hours laboratory
Grading: letter grade or pass/no pass
This course is a hands-on, practical introduction to the function of stage, costume/wardrobe and make-up technicians and their contribution to dramatic productions. This course includes organization of the stage, lighting and properties departments, costume and make-up departments in the running of a theatre production, including equipment use and maintenance, and the function of technical stage personnel in production work.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

TART 40
Stage Craft
3.0 units
2.3 hours lecture, 3.4 hours laboratory
Corequisite: TART 39AD and 51AD. You must enroll in the corequisite courses before enrolling in this course.
Grading: letter grade or pass/no pass
Formerly TART 40AD. This course is a study of the theory, techniques and application of scenic design for the stage including the use of painting, construction and
Courses of Instruction

manipulation of stage scenery. Students will gain practical experience in construction of scenery for Theatre Arts Department productions.

Transfer Status: Transferable to UC, CSU; see counselor for limitations.

TART 42 3.0 units
Introduction to Stage Lighting
2.3 hours lecture, 3.4 hours laboratory
Corequisite: TART 39AD and 51AD. You must enroll in the corequisite courses before enrolling in this course.
Grading: letter grade or pass/no pass
Formerly TART 42AD. This course is a study of the theory, techniques and application of stage lighting. It includes the use of lighting materials and equipment, experimenting with light and color, and lighting a stage for department productions.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

TART 43 3.0 units
Introduction to Stage Costume
2.3 hours lecture, 3.4 hours laboratory
Corequisite: TART 39AD and 51AD. You must enroll in the corequisite courses before enrolling in this course.
Grading: letter grade or pass/no pass
Formerly TART 43AD. Students will study costume history, design, and basic construction techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

TART 44 3.0 units
Costume Design
2.3 hours lecture, 3.4 hours laboratory
Prerequisite: TART 43
Corequisite: TART 39AD and 51AD. You must enroll in the corequisite courses before enrolling in this course.
Grading: letter grade or pass/no pass
Formerly TART 44AD. This course presents techniques and theories of designing costumes for the stage. Topics include design elements, execution of costume plates and costume plots, research and organization, clothing and theatrical costume history, patterns, budgets and development of costume portfolio. Field trips (when possible) will be taken to augment this process, i.e.: museums, garment district, costume rental houses, etc.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

TART 47 3.0 units
Theatre Management
3.4 hours lecture
Corequisite: TART 51AD
Grading: letter grade or pass/no pass
This class will introduce the principles, practices and skills of required for the professional theatrical stage manager and production manager. It will examine the responsibilities and functions of these roles in relation to the director, designers, and performers. With emphasis is placed on the duties, responsibilities and procedures from pre-production to post production.
Transfer Status: Transferable to CSU Only; see counselor for limitations.

TART 49AD 2.5 units
Rehearsal and Performance
9.0 hours laboratory
Prerequisite: TART 1 (may be taken concurrently)
Corequisite: TART 51AD. You must enroll in the corequisite course before enrolling in this course.
Grading: letter grade or pass/no pass
This course focuses on the application of acting and technical theatre theory through lab exploration in all aspects of one act play productions. It develops acting and crew capabilities, skills and disciplines through auditions, rehearsals and public performances. Students will participate in two play productions.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

TART 50/1 0.5 unit
Major Production Performance
2.3 hours laboratory
Recommended Preparation: Audition
Grading: letter grade or pass/no pass
This course is the study of live theatre through lab exploration of all aspects of play production involving the performer. It develops acting capabilities, skills and disciplines through the audition, preparation and presentational phases of a staged public production.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

TART 50/2 1.0 unit
Major Production Performance
4.5 hours laboratory
Recommended Preparation: Audition
Grading: letter grade or pass/no pass
This course is the study of live theatre through lab exploration of all aspects of play production involving the performer. It develops acting capabilities, skills and disciplines through the audition, preparation and presentational phases of a staged public production.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

TART 50/3 2.0 units
Major Production Performance
6.8 hours laboratory
Recommended Preparation: Audition
Grading: letter grade or pass/no pass
This course is the study of live theatre through lab exploration of all aspects of a classic comedic play production involving the performer. It develops acting capabilities, skills and disciplines through the audition, preparation and presentational phases of a staged public production.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.

TART 50AD 2.5 units
Major Production Performance
9.0 hours laboratory
Recommended Preparation: Audition
Grading: letter grade or pass/no pass
This course is the study of live theatre through lab exploration of all aspects of play production involving the performer. It develops acting capabilities, skills and disciplines through the audition, preparation and presentational phases of a staged public production.
Transfer Status: Transferable to UC, CSU; see counselor for limitations.
<table>
<thead>
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<th>Course Title</th>
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<tbody>
<tr>
<td>TART 51AD</td>
<td>1.0</td>
<td>Theatre Forum</td>
<td>This course affords the student participation as an audience member in weekly programs dealing with the art of theatre, including scene work, one-act plays, special presentations and fully staged productions. It provides live performance experience for the student to experience the work collaboration by various theatre artists such as the playwright, producer, director, choreographer, designer, performer, stage manager, technician. Transfer Status: Transferable to CSU Only; see counselor for limitations.</td>
</tr>
<tr>
<td>TART 55</td>
<td>3.0</td>
<td>Stage Makeup</td>
<td>Corequisite: TART 39AD and 51AD. You must enroll in the corequisite courses before enrolling in this course. Grading: letter grade or pass/no pass Formerly TART 55AB. This course serves as a study of the basic theory and application of stage makeup. It includes the design and application of stage makeup to oneself, others and especially actors for various theatre productions. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>TART 56</td>
<td>3.0</td>
<td>Intermediate Stage Makeup</td>
<td>Prerequisite: TART 55 Corequisite: TART 39AD and TART 51AD. You must enroll in the corequisite courses before enrolling in this course. Grading: letter grade or pass/no pass Formerly TART 56AD. In this course students will explore three dimensional makeup such as: prosthetics, bald caps and wig-making. In addition, students will be exposed to experimentation with new products developed for theatrical make-up, and the design/rendering processes. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>TART 75</td>
<td>2.0</td>
<td>Summer Repertory Theatre: Performance</td>
<td>Corequisite: TART 76 Recommended Preparation: Audition Grading: letter grade or pass/no pass Formerly TART 75AD. Summer Repertory Theatre/Performance is the participation in an organized summer theatre program based on the procedures of the professional repertory theatre. Extensive experience in training, rehearsal and performance is explored through required live play productions. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>TART 76</td>
<td>2.0</td>
<td>Summer Repertory Theatre: Production</td>
<td>Corequisite: TART 76 Grading: letter grade or pass/no pass Formerly TART 76AD. This course is a hands-on practical introduction to the function of stage, costume/wardrobe and make-up technicians and their contribution to dramatic productions. Course topics include organization of the stage, lighting and properties departments, costume and make-up departments in the running of a theatre production, including equipment use and maintenance, and the function of technical stage personnel in production work. Transfer Status: Transferable to UC, CSU; see counselor for limitations.</td>
</tr>
<tr>
<td>TART 201</td>
<td>1.5</td>
<td>Show Business Careers-How to Start</td>
<td>Prerequisite: TART 1 Grading: letter grade or pass/no pass This course will examine primary and secondary show business career options available in the greater Los Angeles area, as well as other geographic regions. The course specifics will include, but not be limited to: On &amp; off camera behavior, agenting, producing, unions, broadcasting and production trades.</td>
</tr>
<tr>
<td>TART 204</td>
<td>1.5</td>
<td>Marketing Yourself for Show Business</td>
<td>Prerequisite: TART 1 Grading: letter grade or pass/no pass This course examines aspects of show business career self marketing. This course content will explain all avenues of options in a hands-on style. This course will include, but not be limited to: Photographs, websites, professional publications, Union programs and guest lecturers.</td>
</tr>
<tr>
<td>TART 205</td>
<td>3.5</td>
<td>Auditions for Theatre and Film</td>
<td>Prerequisite: TART 1 Recommended Preparation: TART 1B and TART 1C and TART 2 Grading: letter grade or pass/no pass This course prepares performers for the practical application of the professional audition process. Course exercises assist in developing an actors professional manner, concentration and awareness. Selection of material, analyzing the text, presenting the material, preparation of a resume with pictures and the presentation of self for maximum effect are covered in the course. Various types of auditions will be explored, including but not limited to; stage, film &amp; television auditions, commercial auditions and cold-reading technique. Guest lecturers may be part of the class and simulated auditions plus filming students in simulated auditions will aid in the learning process.</td>
</tr>
</tbody>
</table>
TART 206A 1.5 units
Audition and Interview Skills—Beginning
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: TART 1
Grading: letter grade or pass/no pass
This course will examine the beginning techniques for show business professional auditioning and interviewing. Course specifics will include but not be limited to: Live theatre, television, commercials and elements of broadcasting.

TART 206B 1.5 units
Audition and Interview Skills — Advanced
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: TART 206A
Grading: letter grade or pass/no pass
This course explores further aspects of television commercials in the greater Los Angeles area, as well as other geographic regions. The course specifics will include, but not be limited to: Advanced audition techniques, product copy, sponsors, pay tables, residuals and headshots.

TART 208A 1.5 units
Breaking into Commercials — Beginning
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: TART 1
Grading: letter grade or pass/no pass
This course examines fundamental aspects of television commercials in the greater Los Angeles area, as well as other geographic regions. The course specifics will include, but not be limited to: national, regional, local and wild spots as well as auditioning, product copy, sponsors, pay tables, residuals, and headshots.

TART 208B 1.5 units
Breaking Into Commercials — Advanced
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: TART 208A
Grading: letter grade or pass/no pass
This course explores further aspects of television commercials in the greater Los Angeles area, as well as other geographic regions. The course specifics will include, but not be limited to: Advanced audition techniques, product copy, sponsors, pay tables, residuals, and headshots.

TART 210A 1.5 units
Voice-Over Techniques — Beginning
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: TART 1
Recommended Preparation: TART 1C
Grading: letter grade or pass/no pass
This course is an examination of preliminary techniques for commercial and theatrical voice-overs. Course topics will include but not be limited to: Advanced audition techniques, product copy, sponsors, pay tables, residuals and headshots.

TART 210B 1.5 units
Voice-Over Techniques-Advanced
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: TART 210A
Recommended Preparation: TART 1C
Grading: letter grade or pass/no pass
This course will examine the advanced techniques of theatrical and commercial voice-overs. Course topics will include but not be limited to: Advanced audition techniques, product copy, sponsors, pay tables, residuals and headshots.

TART 212A 1.5 units
Acting in Film — Beginning
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: TART 1
Grading: letter grade or pass/no pass
This course is an examination of beginning techniques for acting in film. Course topics will include but not be limited to: Advanced audition techniques, product copy, sponsors, pay tables, residuals and headshots.

TART 212B 1.5 units
Acting in Film — Advanced
1.1 hours lecture, 2.3 hours laboratory
Prerequisite: TART 212A
Grading: letter grade or pass/no pass
This course is an examination of multiple aspects and advanced techniques for acting in film. Topics will include but not be limited to: Advanced audition techniques, product copy, sponsors, pay tables, residuals and headshots.

WELD 50 4.0 units
Introduction to Welding
2.3 hours lecture, 6.8 hours laboratory
Grading: letter grade or pass/no pass
This course is an introduction to welding, emphasizing oxy-acetylene welding, oxy-acetylene cuttings, braze welding and pipefitting. It is suitable for students majoring in other occupational areas, such as auto body repair, auto mechanics, machine tool or aircraft maintenance. Good health, manual dexterity and corrected or uncorrected 20/20 vision are necessary to be employable in the welding industry. Students are required to attend 5 hours at the Career Technical Education (CTE) success center for specially designed activities and assignments that relate to this course content.

WELD 211 9.0 units
Fundamentals of Welding & Tools of Trade
5.6 hours lecture, 15.0 hours laboratory, 0.3 hour supplemental learning
Grading: letter grade or pass/no pass
This course is an introduction to welding, emphasizing oxy-acetylene welding, oxy-acetylene cuttings, brazing, welding and pipefitting. It is suitable for students majoring in other occupational areas, such as auto body repair, auto mechanics, machine tool or aircraft maintenance. Good health, manual dexterity and corrected or uncorrected 20/20 vision are necessary to be employable in the welding industry. Students are required to attend 5 hours at the Career Technical Education (CTE) success center for specially designed activities and assignments that relate to this course content.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD 212</td>
<td>4.0 units</td>
</tr>
<tr>
<td><strong>Introduction to Shielded Metal Arc Welding</strong></td>
<td></td>
</tr>
<tr>
<td>2.3 hours lecture, 6.8 hours laboratory</td>
<td></td>
</tr>
<tr>
<td>Grading: letter grade or pass/no pass</td>
<td></td>
</tr>
<tr>
<td>This course is an introduction to the safe practices, setup, and operation of Shielded Metal Arc Welding. Topics will include machine settings, basic electricity, welding symbols, and basic metallurgy. This course is designed for students that are seeking beginning Shielded Metal Arc Welding knowledge and skills.</td>
<td></td>
</tr>
</tbody>
</table>

| WELD 213    | 4.0 units |
| **Intro to Semi-Automatic Welding** |
| 2.3 hours lecture, 6.8 hours laboratory |
| Grading: letter grade or pass/no pass |
| This course is an introduction to the safe practices, setup, and operation of Flux-Cored Arc Welding (FCAW), and Gas Metal Arc Welding (GMAW). Topics will include machine settings, basic electricity, welding symbols, electrode selection, and Gas Metal Arc Welding transfer modes. This course is designed to prepare students for entry into an occupation using semi-automatic welding processes. |

| WELD 214    | 4.0 units |
| **Introduction to Gas Tungsten Arc Welding** |
| 2.3 hours lecture, 6.8 hours laboratory |
| Grading: letter grade or pass/no pass |
| This course is an introduction to the safe practices, setup, and operation of Gas Tungsten Arc Welding. Topics will include machine settings, basic electricity, welding symbols, and basic metallurgy. This course is designed for students that are seeking basic Gas Tungsten Arc Welding knowledge and skills. |

| WELD 221    | 3.0 units |
| **Arc Welding Structural Certification** |
| 3.4 hours lecture |
| Recommended Preparation: WELD 212 |
| Grading: letter grade or pass/no pass |
| This course is designed to prepare students to take the Los Angeles City Certification test in structural steel welding. It provides additional instructions in the practical hands on welding. It is also designed for students who wish to advance their knowledge and skills in welding. The course includes safety, electrode identification, welding code applications and basic welding metallurgy. |

| WELD 400    | 2.0 units |
| **Welding (General)** |
| 1.1 hours lecture, 3.4 hours laboratory |
| Grading: letter grade or pass/no pass |
| This course teaches the basic oxygen acetylene, inert gas including GTAW (TIG-heliarc), and arc welding processes. The student will learn welding of carbon steel, stainless steel, aluminum, and GMAW (MIG) of steel and aluminum. This class instruction also covers correct equipment setup, safety practices and general related information. |

| WELD 410    | 2.0 units |
| **Welding (ARC)** |
| 6.8 hours laboratory |
| Grading: letter grade or pass/no pass |
| This course covers the techniques of arc welding of steels, cast iron, aluminum, hard facing, cutting, safety practices and related information. |

| WELD 411    | 1.0 unit |
| **Welding (ARC)** |
| 3.4 hours laboratory |
| Grading: letter grade or pass/no pass |
| This course provides practice in arc welding procedures on various types of metal and the opportunity to learn safety practices. |

| WELD 412    | 3.0 units |
| **Shielded Metal Arc Welding (ARC)** |
| 10.1 hour laboratory |
| Grading: letter grade or pass/no pass |
| This course will address the techniques of arc welding of steels, cast iron, aluminum, hard facing, and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/open exit program, and it requires the completion of 162 lab hours. |

| WELD 413    | 2.0 units |
| **SMAW Flat/Horz Groove Welds with Backing** |
| 6.8 hours laboratory |
| Recommended Preparation: WELD 212 |
| Grading: letter grade or pass/no pass |
| This is an intermediate course in SMAW (Shielded Metal Arc Welding) fundamentals with emphasis on structural welds in the flat and horizontal positions. This class prepares students to take the AWS certification test in structural steel and to advance their knowledge and skills in the SMAW process. It also includes correct equipment setup, safety practices, general related information, introduction to code specifications, blueprint reading, inspection procedures, and basic welding metallurgy. Good health, manual dexterity and corrected or uncorrected 20/20 vision are necessary to be employed in the welding industry. |

<p>| WELD 414    | 2.0 units |
| <strong>SMAW Vert &amp; OV/HD Grv Welds w/ Backing</strong> |
| 6.8 hours laboratory |
| Recommended Preparation: WELD 212 |
| Grading: letter grade or pass/no pass |
| This is an advance course in SMAW (Shielded Metal Arc Welding) fundamentals with emphasis on structural welds in the vertical and overhead positions. This class prepares students to take the AWS certification test in structural steel and to advance their knowledge and skills in the SMAW process. It also includes correct equipment setup, safety practices, general related information, introduction to code specifications, blueprint reading, inspection procedures, and basic welding metallurgy. Good health, manual dexterity and corrected or uncorrected 20/20 vision are necessary to be employed in the welding industry. |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Laboratory Hours</th>
<th>Recommended Preparation</th>
<th>Grading</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD 415</td>
<td>2.0</td>
<td>WELD 415</td>
<td>6.8</td>
<td>WELD 212</td>
<td>letter grade or pass/no pass</td>
<td>This course will address the techniques of arc welding of steels, cast iron, aluminum, hard facing and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/open exit program, and it requires the completion of 108 lab hours.</td>
</tr>
<tr>
<td>WELD 416</td>
<td>2.0</td>
<td>WELD 416</td>
<td>6.8</td>
<td>WELD 212</td>
<td>letter grade or pass/no pass</td>
<td>This course will address the techniques of arc welding of steels, cast iron, aluminum, hard facing and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/open exit program, and it requires the completion of 108 lab hours.</td>
</tr>
<tr>
<td>WELD 460</td>
<td>2.0</td>
<td>WELD 460</td>
<td>6.8</td>
<td></td>
<td>letter grade or pass/no pass</td>
<td>This course explores the techniques of oxy-acetylene gas welding of steels and aluminum, hard facing, flame cutting, brazing and oxy-hydrogen welding. Safety practices and general related information is included.</td>
</tr>
<tr>
<td>WELD 461</td>
<td>1.0</td>
<td>WELD 461</td>
<td>3.4</td>
<td></td>
<td>letter grade or pass/no pass</td>
<td>This course is a study of the techniques of oxy-acetylene gas welding of steels and aluminum, hard facing, flame cutting brazing, oxy-hydrogen welding and safety practices.</td>
</tr>
<tr>
<td>WELD 480</td>
<td>2.0</td>
<td>WELD 480</td>
<td>6.8</td>
<td>WELD 214</td>
<td>letter grade or pass/no pass</td>
<td>This course provides the study and practice with inert gas welding skills, including GTAW (TIG-heliarc) welding of carbon steel, stainless steel, aluminum, and GMAW (MIG) of steel, aluminum and intershield welding (FCAW). The student can learn the skills necessary for a career as an aerospace industry worker. Course instruction also covers correct equipment setup and safety practices.</td>
</tr>
<tr>
<td>WELD 481</td>
<td>1.0</td>
<td>WELD 481</td>
<td>3.4</td>
<td></td>
<td>letter grade or pass/no pass</td>
<td>This course provides practice in the techniques of metallic and tungsten inert gas welding, welding of steels, aluminum, magnesium, cast iron and safety practices.</td>
</tr>
<tr>
<td>WELD 482</td>
<td>2.0</td>
<td>WELD 482</td>
<td>6.8</td>
<td>WELD 214</td>
<td>letter grade or pass/no pass</td>
<td>This course will address the techniques of Tungsten Inert Gas arc welding (TIG) of steels, cast iron, aluminum, hard facing, and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/open exit program and it requires the completion of 108 lab hours.</td>
</tr>
<tr>
<td>WELD 483</td>
<td>2.0</td>
<td>WELD 483</td>
<td>6.8</td>
<td>WELD 213</td>
<td>letter grade or pass/no pass</td>
<td>This course will address the techniques of Gas Metal Arch Welding (GMAW) and Flux Core Arc Welding (FCAW) of steels, cast iron, aluminum, hard facing, and cutting. It also covers correct equipment setup and safety practices. This class is an open entry/exit program, and it requires the completion of 108 lab hours.</td>
</tr>
<tr>
<td>WELD 601</td>
<td>0.0</td>
<td>WELD 601</td>
<td>1.1</td>
<td></td>
<td>LBCC Non-Graded Course</td>
<td>This course offers the new student or a former student additional assistance in welding and or helps improve mastery of a specific welding position. Also, a student can use this course to practice for a practical performance test.</td>
</tr>
</tbody>
</table>