

Course Descriptions

Accounting

ACTG 100 ACCOUNTING PROCEDURES

Introduction to financial accounting procedures for proprietorships in service and merchandising operations. Instruction in manual and computerized accounting systems with hands-on computer experience. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of MATH 110, or MATH 111 and MATH 112, with a grade of C or better, or equivalent.

Transfer Credit: CSU

ACTG 103 TEN-KEY SKILLS

Development of speed and accuracy using the ten-key pad on a computer keyboard for the four basic functions of addition, subtraction, multiplication, and division. *Pass/No Pass Only. Degree Credit.*

Units: 0.5

Hours/semester: 8-9 Lecture; 16-18 TBA

Transfer Credit: CSU

ACTG 121 FINANCIAL ACCOUNTING

Students taking their first course in accounting are strongly encouraged to complete ACTG 100 before enrolling in ACTG 121. Explores what financial accounting is, why it is important, and how it is used by investors and creditors to make decisions. Covers the application of generally accepted accounting principles, the classified financial statements, and statement analysis. Includes issues relating to asset, liability, and equity valuation; revenue and expense recognition; cash flow; internal controls; and ethics. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 16-18 TBA; 112-126 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of MATH 110, or MATH 111 and MATH 112, with a grade of C or better, or equivalent. ACTG 100 or equivalent; and BCM. 225 or equivalent.

Transfer Credit: CSU, UC

C-ID: ACCT 110

ACTG 131 MANAGERIAL ACCOUNTING

Examination of how managers use accounting information in decision-making, planning, directing operations, and controlling in an ethical environment. Focus on cost terms and concepts, cost behavior, cost structure, and cost-volume-profit analysis. Examination of profit planning, standard costs, operations and capital budgeting, cost control, and accounting for costs in manufacturing organizations. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 16-18 TBA; 112-126 Homework

Prerequisites: ACTG 121 or equivalent.

Recommended: BCM. 225 or equivalent.

Transfer Credit: CSU, UC

C-ID: ACCT 120

ACTG 144 QUICKBOOKS: SET-UP AND SERVICE BUSINESS

Development and operation of a computerized accounting system using QuickBooks and QuickBooks Pro for the Service Business. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

ACTG 145 QUICKBOOKS: PAYROLL AND MERCHANDISING BUSINESS

Set up and maintenance of a computerized financial accounting system using the advanced features of QuickBooks Pro, along with coverage of payroll and the merchandising business. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. ACTG 144 or equivalent.

Transfer Credit: CSU

ACTG 151 INTERMEDIATE ACCOUNTING I

The first in a series of three intermediate financial accounting courses. Application of Generally Accepted Accounting Principles (GAAP) and International Financial Reporting Standards (IFRS). Topics include processing and reporting financial transactions and information relating to the content and structure of financial statements and related notes, revenues and expenses recognition, time value of money and its application in an accounting framework, and analysis of current assets and current liabilities. NOTE: This course is intended for students who hold a Bachelor's degree and who need the course to meet the CPA exam coursework requirement or Advanced Accounting Certificate. Accounting majors who intend to transfer to UC or CSU should take this course at their transfer school. [CPE Hours: CPA, 45 hours]. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ACTG 121 or equivalent.

Transfer Credit: CSU

ACTG 152 INTERMEDIATE ACCOUNTING II

The second in a series of three intermediate financial accounting courses. Application of Generally Accepted Accounting Principles (GAAP) and International Financial Reporting Standards (IFRS). Topics acquisition and disposal of plant assets, intangible assets, long-term liabilities and leases. This course is intended for students who hold a Bachelor's degree and who need the course to meet the CPA exam coursework requirement or Advanced Accounting Certificate. Accounting majors who intend to transfer to UC or CSU should take this course at their transfer school. [CPE Hours: CPA, 45 hours]. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ACTG 121 or equivalent.

Recommended: ACTG 151

Transfer Credit: CSU

ACTG 153 INTERMEDIATE ACCOUNTING III

The third in a series of three intermediate financial accounting courses. Application of Generally Accepted Accounting Principles (GAAP) and International Financial Reporting Standards (IFRS). Topics include revenue recognition, valuation of stockholders' equity, earnings per share, derivatives, income taxes, pensions and post-retirement benefits, and share-based compensation. This course is intended for students who hold a Bachelor's degree and who need the course to meet the CPA exam

coursework requirement or Advanced Accounting Certificate. Accounting majors who intend to transfer to UC or CSU should take this course at their transfer school. [CPE Hours: CPA, 45 hours]. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ACTG 121 or equivalent.

Recommended: ACTG 151

Transfer Credit: CSU

ACTG 154 GOVERNMENTAL AND NONPROFIT ACCOUNTING

Study of the theory and practice of accounting for local and state government entities and nonprofit agencies. Topics include analysis and application of pronouncements from the Governmental Accounting Standards Board (GASB); fund accounting, operational and cash budgeting, and operational control issues; transaction analysis, financial statement preparation and analysis, and external reporting issues. This course is intended for students who hold a Bachelor's degree and who need the course to meet the CPA exam coursework requirement or Advanced Accounting Certificate. Accounting majors who intend to transfer to UC or CSU should take this course at their transfer school. [CPE Hours: CPA, 45 hours] *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ACTG 121 or equivalent.

Transfer Credit: CSU

ACTG 155 COST ACCOUNTING

Study of the theory and practice of managerial cost accumulation concepts and techniques for product and service costing, planning and control. Special emphasis will be placed on the use of cost accounting information for decision-making and the preparation, analysis and use of cost accounting information. Topics include cost volume profit analysis, cost accumulation techniques, decentralization, transfer pricing, capital budgeting, cost allocation, budgeting, statistical cost estimation. Managerial uses of information for planning, control, and performance evaluation. This course is intended for students who hold a Bachelor's degree and who need the course to meet the CPA exam coursework requirement or Advanced Accounting Certificate. Accounting majors who intend to transfer to UC or CSU should take this course at their transfer school. [CPE Hours: CPA, 45 hours] *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework



Prerequisites: ACTG 131 or equivalent.

Transfer Credit: CSU

ACTG 156 INTERNATIONAL ACCOUNTING

Explore and analyze the differences in financial reporting under U.S. GAAP, International Financial Reporting Standards (IFRS) and other accounting systems, such as Chinese accounting system. Topics include accounting issues related to international business activities and foreign operations, strategic accounting issues of multinational companies, corporate governance, and corporate social responsibility reporting. This course is intended for students who hold a Bachelor's degree and who need the course to meet the CPA exam coursework requirement or Advanced Accounting Certificate. Accounting majors who intend to transfer to UC or CSU should take this course at their transfer school. [CPE Hours: CPA, 45 hours] *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ACTG 121 or equivalent.

Transfer Credit: CSU

ACTG 158 FINANCIAL STATEMENT ANALYSIS

Effective and efficient research, interpretation and analysis of financial statements and other financial information. [CPE Hours: CPA, 45 hours]. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Prerequisites: ACTG 121 or equivalent.

Transfer Credit: CSU

ACTG 169 ACCOUNTING ETHICS

The study of ethical problems that arise within the contexts of the accounting profession. Topics include major ethical theories and the professional code of conduct for accountants, auditors, and tax preparers. The course is intended to meet the education requirement to sit for the CPA exam and also meets the California Board of Accountancy accounting ethics course requirement for CPA licensure. [CPE Hours: CPA, 48 hours] *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

ACTG 171 FEDERAL INCOME TAX

Preparation of Federal and California income tax returns for individuals; basic income tax law, theory and practice. Students who successfully complete this course may apply to the California Tax Education Council (CTEC) to become a Registered Tax Preparer in California. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 16-18 TBA; 112-126 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of MATH 110, or MATH 111 and MATH 112, with a grade of C or better, or equivalent.

Transfer Credit: CSU

ACTG 172 BUSINESS INCOME TAXES

Preparation of Federal and California income tax returns for corporations, partnerships and sole proprietorships. Completion of ACTG 172 will enable students to complete most tax returns required of professional tax preparers. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 16-18 TBA; 112-126 Homework

Recommended: ACTG 100 or ACTG 121 or equivalent; and ACTG 171 or equivalent.

Transfer Credit: CSU

ACTG 175 VOLUNTEER INCOME TAX PREPARATION

Preparation of Federal and California income tax returns and use of tax preparation software. Topics include Capital Gains and Losses, Business Income and Expenses, the Earned Income Tax Credit (EITC), Child Tax Credit, Child and Dependent Care Credit, filing status, dependency exemptions, basic deductions, and adjustments. Students serve in the Volunteer Income Tax Assistance (VITA) program and prepare income tax returns for qualifying individuals at no cost. Skyline VITA volunteers receive 32 hours of instruction and prepare income tax returns for 24 hours at the Skyline VITA site. *Pass/No Pass Only. Degree Credit.*

Units: 2.5

Hours/semester: 32-36 Lecture; 24-27 Lab; 64-72 Homework

Transfer Credit: CSU

ACTG 176 ENROLLED AGENT EXAM PREPARATION

Preparation for the IRS Enrolled Agent exam, known as the SEE (Special Enrollment Exam). Topics include taxation of individuals, inheritance, gifts, estates; taxation of small businesses, partnerships, farmers, C corporations, S corporations; taxation of not-for-profit entities, foreign corporations, and retirement plans. Other topics include fiduciary tax returns, determination of tax-exempt status, practice before the IRS and tax prepare rules. Course content will be adjusted to reflect changes in the SEE. [CPE Hours: CPA, CTEC 48 Fed] *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: ACTG 121 and ACTG 172 or equivalent.

Transfer Credit: CSU

ACTG 179 TAXATION OF TRUSTS, GIFTS AND ESTATES

Preparation of Federal and California income tax returns for trusts, estates, and gifts. Topics include income tax law, theory, and practice, and preparation of Forms 1041 (Fiduciary), 706 (Estate) and 709 (Gift) and the related California tax forms. This course is part of the Enrolled Agent Exam Preparation Certificate and the CPA Exam Preparation Series. [CPE Hours: CPA, EA, CTEC 48 Fed] *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: ACTG 121 and ACTG 171 and ACTG 172 or equivalent.

Transfer Credit: CSU

ACTG 665 SELECTED TOPICS IN ACCOUNTING

Short course used to introduce, develop or review accounting and/or financial topics related to financial planning. Focus on a variety of topics, such as basic accounting skills, introduction to current accounting and financial software applications, upgrades to accounting software, and other related financial planning and budgeting topics. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 0.5 - 3

Hours/semester: 8-54 Lecture; 16-54 TBA; -54 Homework

Recommended: Satisfactory completion of, or concurrent enrollment in, ADMJ 100 or equivalent.

Transfer Credit: CSU

ACTG 670 VOCATIONAL COOPERATIVE EDUCATION IN ACCOUNTING

Students may receive credit for work experience related to their major field or to their established career goal. Seminars and individual conferences are scheduled at convenient times during the semester for the instructor and the student to establish learning objectives related to the student's employment. Students are given appropriate assignments related to the stated objectives and graded in accordance with the college's established grading system. As an alternative, related instruction classes meeting one hour per week, usually in the evening, are available for those students who prefer or need a more structured learning process. One unit of credit for each 75 hours worked per semester, with a maximum of four units per semester, may be earned by students with jobs related to their academic or occupational majors or goals. May be repeated for credit up to 16 units. This limitation applies to Occupational Cooperative Education work experience courses offered within the SMCCCD. *Pass/No Pass Only. Degree Credit.*

Units: 2

Hours/semester: 150 Work Experience

Prerequisites: Permission of the Cooperative Education Office, concurrent enrollment in a planned vocational program, and employment in a college-approved job directly related to the student's academic major.

Transfer Credit: CSU

Administration of Justice

ADMJ 100 INTRODUCTION TO ADMINISTRATION OF JUSTICE

History and philosophy of administration of justice in America; recapitulation of the system; identifying the various subsystems, role expectations and their interrelationships; theories of crime, punishment, and rehabilitation. Survey of the ethics, education, and required training for professionalism in the system. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC

C-ID: AJ 110

ADMJ 102 PRINCIPLES AND PROCEDURES OF JUSTICE

The role and responsibilities of each segment within the administration of justice system: law enforcement, judicial, and corrections. Procedures in each sub-system and how they relate to one another. May include field research. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Satisfactory completion of, or concurrent enrollment in, ADMJ 100 or equivalent.

Transfer Credit: CSU

C-ID: AJ 122

ADMJ 104 CONCEPTS OF CRIMINAL LAW

Historical development and philosophy of criminal law and constitutional provisions. Special emphasis on legal definitions, the classifications of crime and their application to the administration of justice system. Study of case law, methodology, and concepts of law as a social force. Also listed as LEGL 304. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Satisfactory completion of, or concurrent enrollment in, ADMJ 100 or LEGL 240 or equivalent.

Transfer Credit: CSU, UC

C-ID: AJ 120

ADMJ 106 LEGAL ASPECTS OF EVIDENCE

Origin, 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 and interpreting individual rights and case studies. Also listed as LEGL 306. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Satisfactory completion of, or concurrent enrollment in, ADMJ 100 or LEGL 240 or equivalent.

Transfer Credit: CSU

C-ID: AJ 124

ADMJ 108 COMMUNITY RELATIONS

Study of the complex and dynamic relationship between the criminal justice system and the widely diverse multicultural society it serves in addressing crime and conflict. Emphasis will be on the roles and interaction of administration of justice practitioners and their agencies in the community, the challenges and prospects of administering justice within a diverse multicultural population, crime prevention, restorative justice, conflict resolution, and professional ethics in justice administration. Also listed as SOCI 108. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Satisfactory completion of, or concurrent enrollment in, ADMJ 100 or SOCI 100 or equivalent.

Transfer Credit: CSU, UC

C-ID: AJ 160

ADMJ 110 POLICE REPORT WRITING

Exploration of effective police report writing techniques, including crime, arrest and incident reports. Examination of interview methods, note taking, report organization and documentation, crime scene diagrams, search warrant affidavits, and case preparation for prosecution. Emphasis on essential principles of written and oral communication in law enforcement, including testifying in court. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Satisfactory completion of, or concurrent enrollment in, ADMJ 100 or equivalent

Transfer Credit: CSU

ADMJ 120 CRIMINAL INVESTIGATION

An introductory level Administration of Justice course that explores the concepts of, and techniques used in, the investigation of crime, including crime scene protection, searching for and processing evidence, conducting interviews and interrogations, surveillance, and scientific analysis of evidence. Also listed as LEGL 320. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Satisfactory completion of, or concurrent enrollment in, ADMJ 100 or LEGL 240 or equivalent.

Transfer Credit: CSU

C-ID: AJ 140

ADMJ 123 CONCEPTS OF ENFORCEMENT PRINCIPLES

Explanation of theories, philosophies, and concepts related to the role expectations of the enforcement officer. Emphasis is placed on patrol, traffic, and public services responsibilities and their relationship to the administration of justice systems. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Satisfactory completion of, or concurrent enrollment in, ADMJ 100 or equivalent.

Transfer Credit: CSU

ADMJ 125 JUVENILE PROCEDURES

The study of the extent, causation, and prevention of juvenile delinquency. Includes an analysis of juvenile courts, institutional treatment, probation, parole, and juvenile delinquency prevention programs. The sociological and anthropological approaches to juvenile delinquency will be discussed in terms of their relationship to the administration of justice systems. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Satisfactory completion of, or concurrent enrollment in, ADMJ 100 or equivalent.

Transfer Credit: CSU, UC

C-ID: AJ 220

ADMJ 128 JUVENILE CRIME PREVENTION STRATEGIES

Innovative exploration of juvenile justice and issues facing at-risk youth: criminal law, the consequences of crime, and crime avoidance strategies. Course includes field trips and service learning opportunities. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

ADMJ 134 TRAFFIC ENFORCEMENT AND INVESTIGATION

A study of the fundamentals of traffic law enforcement and collision investigations, including traffic laws and regulations; the purposes and methods of traffic enforcement; detecting traffic law violators and DUI drivers; conducting field sobriety tests; investigating traffic collisions; skidmark and evidence analysis; preparing traffic citations, diagrams, and collision reports; and testifying in traffic court. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Satisfactory completion of, or concurrent enrollment in, ADMJ 100 or equivalent.

Transfer Credit: CSU

ADMJ 665 SELECTED TOPICS IN ADMINISTRATION OF JUSTICE

Advanced specialized study in Administration of Justice. This program is designed to offer unique or specialized criminal justice topics of contemporary student interest. Students will learn from and work closely with criminal justice practitioners and bring this newly acquired knowledge back into the community. Topics vary. May be repeated for credit as topics vary. *Pass/No Pass Only. Degree Credit.*

Units: 0.5 - 2

Hours/semester: 8-36 Lecture; 16-72 Homework

Recommended: Satisfactory completion of, or concurrent enrollment in, ADMJ 100 or equivalent.

Transfer Credit: CSU

ADMJ 670 CRIMINAL JUSTICE INTERNSHIP (COOPERATIVE EDUCATION)

Designed as an on-site experiential learning opportunity for advanced and qualifying Administration of Justice Program students who wish to apply their program skills and knowledge through a supervised paid work experience internship at an approved criminal justice (or justice related) agency. Enrollment and participation in this course is with the approval of the ADMJ Program Coordinator. Must be at least 18 years old and a U.S. citizen, have no felony convictions, possess a background history consistent with work in criminal justice, and ability to pass a background investigation to be conducted by the criminal justice agency. 300 hours of paid on-site work per semester required to achieve 4 units of credit. May be repeated for credit up to 16 units. This limitation applies to Occupational Cooperative Education work experience courses offered within the SMCCCD. *Pass/No Pass Only. Degree Credit.*



Units: 4

Hours/semester: 300 Work Experience

Prerequisites: ADMJ 100 and six units of any of the following ADMJ core courses: ADMJ 102, ADMJ 104, ADMJ 106, ADMJ 108, and ADMJ 110 (three of the six units may be met by concurrent enrollment).

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

American Sign Language

ASL 100 AMERICAN SIGN LANGUAGE I

A beginning course designed to introduce students to the visual-gestural richness of American Sign Language as it is used within the Deaf culture. Introduces students to ASL's basic structure and vocabulary while developing students' expressive skills and understanding of fingerspelling and basic conversational strategies. Provides an introduction to the Deaf community and culture. Equivalent to two years of high school ASL. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 6A)

ASL 110 AMERICAN SIGN LANGUAGE II

A continuation of ASL 100, designed to enhance proficiency in ASL usage. The course further develops conversational skills with an increased emphasis on visual receptive and expressive skills required for learning advanced vocabulary, grammar, non-manual behaviors, and fingerspelling. Creates awareness of Deaf culture through the study of the history of ASL, the cultural dynamics of the Deaf community, and the cultural customs of communication. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Prerequisites: ASL 100 or ASL 112 or equivalent.

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 6A)

ASL 111 AMERICAN SIGN LANGUAGE IA

A basic course in American Sign Language with focus on everyday communication. Topics center around personal information and the immediate environment, including introducing oneself, exchanging personal information and communicating about surroundings and home. Grammar is introduced in context, with an emphasis on developing question and answer skills. Students rehearse conversation strategies for getting attention, asking for clarification, and correcting information to minimize misunderstanding. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC

ASL 112 AMERICAN SIGN LANGUAGE IB

Continuation of ASL 111 with a more extensive focus on everyday communication, including talking about family, everyday activities and storytelling. Review and expansion of functions and grammar introduced in ASL 111. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ASL 111 or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC

ASL 121 ADVANCED ELEMENTARY AMERICAN SIGN LANGUAGE I

Three lecture hours plus one lab hour per week. Prerequisite: Completion of ASL 112, or equivalent curriculum with a grade of C or better. ASL 121 is the first course in an advanced elementary two-course sequence for hearing and non-hearing students. The course covers approximately the same material studied in the first half of ASL 120. Students will acquire a basic ability to sign and understand deaf culture at the advanced elementary level and will learn about the customs, culture and history of the deaf world. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Prerequisites: ASL 112 or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC

ASL 122 ADVANCED ELEMENTARY AMERICAN SIGN LANGUAGE II

Three lecture hours plus one lab hour per week.

Prerequisite: Completion of ASL 121, or equivalent curriculum with a grade of C or better. ASL 122 is the second course in an advanced elementary two-course sequence for hearing and non-hearing students. The course covers approximately the same material studied in the second half of ASL 120. Students will acquire a basic ability to sign and understand deaf culture at the advanced elementary level and will learn about the customs, culture and history of the deaf world more advanced than in ASL 121. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ASL 121 or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 6A)

Anesthesia Technology

See also listings under [Surgical Careers](#).

ANST 400 PROFESSIONAL ASPECTS OF ANESTHESIA TECHNOLOGY

Introduction to Anesthesiology's contribution to quality patient care and the relationship of the Anesthesia Technologist to other health care professionals. Focus is on patient safety, universal precautions, and student safety in the health care environment. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: Admission to the Anesthesia Technology Program.

ANST 405 BASIC PRINCIPLES OF ANESTHESIA TECHNOLOGY

Introduction to the theory and concepts of functioning in a surgical environment including a fundamental understanding of a variety of anesthesia equipment and basic case set-up utilizing anesthesia supplies and equipment. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Admission to the Anesthesia Technology Program.

ANST 410 BASIC ANESTHESIA EQUIPMENT

Introduction to the theories and concepts in the adequate function of anesthesia equipment to include: maintaining equipment, repairing defects and trouble-shooting complications. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: Admission to the Anesthesia Technology Program.

ANST 415 ANESTHESIA PHARMACOLOGY

Introduction to the theory and concepts in the proper use and safe practice of delivery and storage of anesthesia medications which includes: stocking of the drug cart and assisting the anesthesia care provider in the preparation of the medications. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ANST 405 or equivalent.

ANST 420 APPLICATION OF PRINCIPLES IN ANESTHESIA TECHNOLOGY

Introduction to the theory and concepts of the use and function of anesthesia supplies and equipment used for various surgical procedures to include cases in: general, regional, and conscious sedation. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ANST 405 or equivalent.

ANST 425 ANESTHESIA TECHNOLOGY CLINICAL EXPERIENCE I

Introduction to the theory and clinical practice of anesthesia to include: general, regional and conscious sedation techniques. Students will become familiarized with the surgical environment and practice skills and abilities in all basic areas related to role of the Anesthesia Technologist. *Pass/No Pass Only. Degree Credit.*

Units: 5

Hours/semester: 320-320 Field Experience

Prerequisites: ANST 410 or equivalent.

ANST 430 ADVANCED ANESTHESIA EQUIPMENT

Introduction to the theory and concepts of advanced anesthesia equipment used in surgical procedures. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: ANST 420 or equivalent.

ANST 435 ANESTHESIA TECHNOLOGY CLINICAL EXPERIENCE II

Continued application of advanced theory and concepts of clinical practice skills to mastery. Students operate independently as an Anesthesia Technologist in all aspects of patient care including: preoperative, intraoperative, and postoperative surgical phases. *Pass/No Pass Only. Degree Credit.*

Units: 5

Hours/semester: 320-320 Field Experience

Prerequisites: ANST 430 or equivalent.

ANST 440 ANESTHESIA TECHNOLOGY EXAMINATION AND REVIEW

Preparation and review for the Certified Anesthesia Technologist examination required by the American Society for Anesthesia Technologists and Technicians. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ANST 435 or equivalent.

Anthropology**ANTH 110 CULTURAL ANTHROPOLOGY**

A comparative analysis of human cultures with emphases on core concepts such as kinship, religion, politics, technology, and an appreciation of our societal variability. When appropriate, comparison is made with present-day American society to show the effect of societal diversity, size, and complexity of cultural factors. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9D3

Transfer Credit: CSU, UC (IGETC Area 4G)

C-ID: ANTH 120

ANTH 125 PHYSICAL ANTHROPOLOGY

Biological consideration of the origin, development, and potential survival of humans and other primates. Topics include concepts of evolution: natural selection and populations, patterns of inheritance, the fossil record, and behavioral adaptations. The course will examine how biological, physical, and cultural variations have allowed human populations to adapt to various physical environments. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9B2

Transfer Credit: CSU (CSU GE Area B2), UC (IGETC Area 5B)

C-ID: ANTH 110

ANTH 127 PHYSICAL ANTHROPOLOGY LABORATORY

Laboratory designed to become familiar with the methods of the science of biological anthropology while investigating topics in laboratory and field situations. Topics covered in the course: the scientific method, biological variation and forces of evolution, human osteology and variation, comparative osteology of primates, and fossil evidence for human evolution. Field trips may be offered. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Completion of, or concurrent enrollment in, ANTH 125 or equivalent.

Transfer Credit: CSU (CSU GE Area B3), UC (IGETC Area 5C)

C-ID: ANTH 115L

ANTH 150 INTRODUCTION TO ARCHAEOLOGY: BONES, BEADS AND THE BASICS OF MATERIAL CULTURE

Explores cultural diversity using theories and methods of anthropological archaeology. This course typically includes discussions of the development of archaeological research, excavation methods, data analysis, and selected cultural sequences. Instructor may require field trips. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4G)

C-ID: ANTH 150

ANTH 155 HUMAN PREHISTORY AND THE RISE OF CIVILIZATION

An anthropological survey of human and hominid prehistory spanning over two million years. Emphasis is on the origin and cultural evolution of the world's first settled communities and early civilizations, including Mesopotamia, Egypt, India, China, Europe, Central America, and South America. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4G)

ANTH 165 SEX AND GENDER: CROSS-CULTURAL PERSPECTIVES

A survey of cross-cultural and historical factors influencing human sexuality, gender roles and identity. The course emphasizes non-Western culture such as Asian, African, and the Indigenous Americas. Diverse cultural forces affecting both female and male status, such as economics, religion, and sexual practices, will be examined. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4G)

ANTH 170 ANTHROPOLOGY OF DEATH

Examination of cross-cultural perspectives on beliefs and practices around death and dying. Selected topics may include funerary practices, cannibalism, bereavement and concepts of the afterlife. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4G)

ANTH 180 MAGIC, WITCHCRAFT AND RELIGION

Cross-cultural exploration of the supernatural belief systems, focusing on non-literate, tribal and ethnic cultures; history and methods of the anthropological approach to religion; the dynamics of myth, magic, totem, taboo, cults, and sects. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4G)

ANTH 360 NATIVE PEOPLES OF NORTH AMERICA

An introduction to the life ways of representative Native North American culture groups found in different geographical areas of North America. The course will examine settlement patterns and environmental adaptations, social organizations, worldview, and the arts chronologically and cross culturally, with emphasis on the impact of contact with European cultures. Field trips may be arranged to investigate archaeological evidence. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4G)

Arabic

ARBC 111 ELEMENTARY ARABIC I

The first of a two-course-sequence in basic elementary Arabic. Conversation in the language, dictation, reading and study of the fundamentals of grammar; simple oral and written exercises; an introduction to Arabic culture. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 6A)

ARBC 112 ELEMENTARY ARABIC II

Second course of a two-semester sequence in basic elementary Arabic. Conversation in the language, dictation, reading and study of the fundamentals of grammar, simple oral and written exercises, and an introduction to Arabic culture. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ARBC 111 or equivalent.

Transfer Credit: CSU (CSU GE Area C2), UC

Art

Art majors should consult the program outlined in "Degree Programs" for a suggested plan of study.

Art activity courses are subject to repeatability limitations. Students are now limited to a maximum of four courses per family. A family of courses may contain more than four courses. If there are more than four courses in a particular family, a student may only enroll in a maximum of four total courses within that family. A course previously taken by a student (prior to the legislation) within the identified family will count as a repeat and limit future enrollments of courses within that family to a maximum of four.

Art activity courses are offered in levels by progression. Courses are listed by title; for example, Black and White Photography, Ceramics, etc, and then by level. Level I is beginning; Level II is intermediate; and Level III is intermediate/advanced.

New students are advised to enroll in the beginning level and be placed by their instructor upon assessment. Continuing students who have previously taken a course within a family, must progress to the next level.

ART 101 HISTORY OF WESTERN ART I

Comprehensive survey of the history of arts (architecture, painting, sculpture and other media) in the Western traditions and the understanding of art as reflections of the cultures from which the art emerged. Survey of the arts from the historic periods of the Prehistoric to the late 1300's. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

C-ID: ARTH 110

ART 102 HISTORY OF WESTERN ART II

Comprehensive survey of the history of arts (architecture, painting, sculpture and other media) in the Western traditions and the understanding of art as reflections of the cultures from which the art emerged. Survey of the arts from the historic periods of the Renaissance to contemporary times. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

C-ID: ARTH 120

ART 105 ART OF ASIA & THE NEAR EAST

Survey of Asian and Near Eastern Art, especially India, China and Japan, and Persia. Investigation of the cultural sources of art work as well as their aesthetic qualities. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

ART 107 ART OF OUR TIMES

An introduction to the American visual experience of today including painting, sculpture, architecture, industrial, interior, package, advertising, furniture, design, etc. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C1)

ART 115 ART, MUSIC AND IDEAS

An integrated consideration of art and music as reflections of the philosophies and traditions of cultures. The understanding of the various elements common to the creative efforts of art and music are emphasized as a means to enhance and extend a student's recognition, involvement, and ultimately, appreciation of these efforts. Diverse media are examined to demonstrate the realizations of ideas into works of art and music. Also listed as MUS. 115. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

ART 117 ARTS OF AFRICA AND THE AFRICAN DIASPORA

Survey of the arts in Africa, their cultural context, spirit and history from prehistoric to contemporary and their impact on the African diaspora. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 5b

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

ART 120 ART OF THE AMERICAS

An examination of the diverse indigenous arts and cultures of the Americas, the impact of colonialism and the development of ethnic arts in the 19th and 20th centuries in the Americas. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

ART 130 ART APPRECIATION

A brief survey of the concepts and traditions of art through history and diverse cultures. Historical events, customs,

traditions, and technology are evaluated as integrated and interactive elements which influence the creation of art. Through recognition of the communicative abilities of art, the functions and values of art to cultures and the individual are explored. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

ART 175 VISUAL THEORY AND PRACTICE: CERAMIC ART

An introduction to a broad spectrum of ceramic art from diverse cultures, with a focus on visual theory, aesthetics, criticism, and historical context. Students will develop critical thinking skills through the analysis of cultural and technological constructs which influenced the creation of specific genres. In addition, students will produce original works of ceramic art by reinterpreting the traditions they study in a contemporary context, with an emphasis on creative problem solving skills. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

ART 204 DRAWING I

Basic introduction to drawing using both simple and complex forms derived from nature, life, and still life sources. A variety of media will be used. Recommended as a first level course for anyone desiring to participate in an art experience or program. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Transfer Credit: CSU (CSU GE Area C1), UC

C-ID: ARTS 110

ART 205 DRAWING II

Materials and techniques in common use; traditional and contemporary pen, pencil, and conte crayon expression. Rendering of everyday objects and scenes. Methods of depicting shade, shadows, and textures, and acquiring skill in value transition. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA

Prerequisites: ART 201 or ART 204 or equivalent.

Transfer Credit: CSU, UC

C-ID: ARTS 205

ART 207 LIFE DRAWING

The study of the human form as art using the techniques and materials of drawing in several media. Application of fundamental studies of anatomy in the pursuits of expressive representations of the human figure. Studio practice drawing from live models. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Transfer Credit: CSU, UC

C-ID: ARTS 200

ART 208 PORTRAIT DRAWING I

Portrait characterizations using the techniques and materials of drawing in several media. Application of fundamental studies of the anatomy of the head and faces in the pursuits of expressive representations of people. Individualized instruction is emphasized Studio practice drawing from live models. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU, UC

ART 209 PORTRAIT DRAWING II

Advanced portrait characterizations, expanding upon the drawing techniques of Portrait Drawing I. Further enhancements of drawings based upon astute studies of the anatomy of the head and faces. Individualized instruction is emphasized. Studio drawing sessions of male

and female live models. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. ART 208 or equivalent.

Transfer Credit: CSU, UC

ART 214 COLOR

Drawing proficiency is not required. Introduction to the physical and psychological properties of color. This course stresses the knowledge and skills needed to use color aesthetically. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Transfer Credit: CSU, UC

C-ID: ARTS 270

ART 217 INTERMEDIATE LIFE DRAWING

Continued study of the human form as art using the techniques and materials of drawing and painting in pastels, acrylics, oil and watercolor paints. Application of more advanced studies of anatomy and chromatic expressions through different skin palettes. Use of expressive representations of the human figure in different environments. Expression of complex narrative contexts in the human figure. Studio practice drawing and painting from live models. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Prerequisites: ART 207 or equivalent.

Transfer Credit: CSU, UC

ART 221 PAINTING I

Introduction to principles, elements, and practices of painting. Exploration of painting materials, perceptual skills, and paint mixing technique, as well as creative responses to materials and subject matter. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC

ART 222 PAINTING II

Refinement and further development of the art of painting in the creation of works which share ideas and perceptions with others. An intermediate level course in techniques, materials and theories of painting. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Recommended: ART 221

Transfer Credit: CSU, UC

ART 231 WATERCOLOR I

Introduction to transparent and opaque Watercolor. Varied approaches and techniques. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Satisfactory completion of one or more college level studio art courses.

Transfer Credit: CSU, UC

ART 232 WATERCOLOR II

Additional exploration of watercolor painting as a vehicle for creative art expression. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Prerequisites: ART 231 or equivalent.

Transfer Credit: CSU, UC

ART 234 PRINTMAKING I

Basic introduction to printmaking using techniques and materials to create limited edition prints in a variety of media. May include: Monotype, Drypoint, Collagraph, Lithography, Intaglio and Lino-cut. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU, UC

ART 239 PRINTMAKING II: MONOTYPE, MONOPRINT AND MIXED MEDIA

Advanced practice in monotype, monoprint, and mixed media print processes. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Prerequisites: ART 234 or equivalent.

Transfer Credit: CSU

ART 301 TWO-DIMENSIONAL DESIGN

Introduction to the concepts, applications, and historical references related to two-dimensional art and composition, including the study of the basic principles and elements of line, shape, texture, value, color and spatial illusion. Development of a visual vocabulary for creative expression through lecture presentations, studio projects, problem solving, and written assignments. Exploration of drawing and painting materials and techniques to explore two-dimensional design concepts. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Transfer Credit: CSU, UC

C-ID: ARTS 100

ART 350 VISUAL PERCEPTION THROUGH PHOTOGRAPHY

The evaluation of photographs as a means to share observations and critiques of oneself, culture and history. Students will make their own images to further explore the relationships of images and perceptions; to examine how photographs impact our understanding of our world. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

ART 351 BLACK AND WHITE PHOTOGRAPHY I

An introduction to film-based 35mm black and white photography. Students will gain skills to view and produce photographs as an alternative means of sharing personal observations and perceptions. To develop personally meaningful images, the knowledge and application of the photographic equipment, materials and techniques are emphasized. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU, UC

ART 352 BLACK AND WHITE PHOTOGRAPHY II

An intermediate course expanding upon concepts and techniques developed in ART 351. Students will enhance skills to produce photographs to better share personal observations and perceptions. Critical considerations of style, content and presentation will be fundamental components of students' projects. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 32-36 TBA; 32-36 Homework

Prerequisites: ART 351 or equivalent.

Transfer Credit: CSU (CSU GE Area C1), UC

ART 353 BLACK AND WHITE PHOTOGRAPHY III

An advanced course expanding upon concepts and techniques developed in ART 351 and ART 352. Major emphasis of course is the critical considerations of the application of skills to produce photographs that share personal perspectives based upon observations and perceptions. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 32-36 TBA; 32-36 Homework

Prerequisites: ART 352 or equivalent.

Transfer Credit: CSU, UC

ART 354 DIGITAL PHOTOGRAPHY I

Introduction to the use of digital color photography as an alternative means of sharing personal observations and perceptions. In addition to the knowledge and application

of the photographic equipment, materials and techniques; students are introduced to the concepts and principles of using images as a means of communication and expression. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU, UC

ART 355 DIGITAL PHOTOGRAPHY II

A continuation of ART 354. The introduction of advanced and specialized techniques in camera use and manipulations in PhotoShop to expand upon the understanding and use of images as a means of sharing personal perspectives and expressions. An important emphasis of this course is the production of artworks that reflect upon personal observations, perceptions and considerations of one's world. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: ART 354 or equivalent.

Transfer Credit: CSU, UC

ART 401 THREE-DIMENSIONAL DESIGN

Introduction to fundamental concepts and the historical references of organizing forms in three dimensions. Studio application involving various materials to explore 3-D concepts. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Transfer Credit: CSU, UC

C-ID: ARTS 101

ART 405 SCULPTURE I

An introduction to the sculpture processes. Studio practice using a variety of materials. e.g. wood, metal, plaster, clay, stone, and mixed media assemblage to make three-dimensional works of art. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU, UC

ART 406 SCULPTURE II

Advanced study and practice in three dimensional form; a continuation of Art 405 in developing mastery of the media of sculpture, e.g. wood, metal, plaster, clay, stone, and mixed media assemblage. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 32-36 TBA; 32-36 Homework

Prerequisites: ART 405 or demonstration of equivalent skill.

Transfer Credit: CSU, UC

ART 407 SCULPTURE III: DIRECT METAL

Creation of sculptural form in metal using welding, brazing, and soldering techniques for fabrication of line, plane, found-object and mixed media composition. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 32-36 TBA; 32-36 Homework

Prerequisites: ART 405 or demonstration of equivalent skill.

Transfer Credit: CSU

ART 411 CERAMICS I

Basic introduction to ceramics and the creative process. Students will learn ceramic hand-building, glazing, and firing methods as a means of self-expression and communication. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Transfer Credit: CSU, UC

ART 412 CERAMICS II

Additional study of ceramic processes and their application in art. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 32-36 TBA; 32-36 Homework

Prerequisites: ART 411 or equivalent.

Recommended: ART 301 or concurrent enrollment in ART 301.

Transfer Credit: CSU, UC

ART 417 CERAMIC GLAZING TECHNIQUES

Advanced glazing techniques including special glazes, glaze composition and multi-firing techniques. Projects with emphasis on glaze effects. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 32-36 TBA; 32-36 Homework

Prerequisites: ART 412 or equivalent.

Transfer Credit: CSU, UC

ART 418 CERAMICS III

Advanced study of ceramics with a focus on either sculptural or functional artworks in clay. A series of focused ceramics pieces will culminate in the creation of a portfolio. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 32-36 TBA; 32-36 Homework

Prerequisites: ART 412 or equivalent.

Transfer Credit: CSU

ART 430 INTRODUCTION TO DIGITAL ART

Explores creative uses of digital technologies, and introduces digital art from historical and contemporary perspectives. Learn a range of skills and software used in the creation and editing of digital artworks for print, web, and multimedia. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU, UC

C-ID: ARTS 250

ART 431 DIGITAL IMAGING I: PHOTOSHOP

This course focuses on the creation and editing of digital images for use in art and design with Adobe Photoshop. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*



Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 32-36 TBA;
32-36 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. ART 430 or equivalent.

Transfer Credit: CSU, UC

ART 432 DIGITAL IMAGING II: ADVANCED PHOTOSHOP

This project-based course will expand on the tools and techniques necessary to further explore the image making process using raster based software such as Adobe Photoshop. Students develop strategies for content development, visual cohesiveness, and graphic production techniques. Topics include design, layout, typography, color principles, and project preparation for print, web, and animation. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 32-36 TBA;
32-36 Homework

Prerequisites: ART 431 or equivalent.

Transfer Credit: CSU

ART 435 DIGITAL ILLUSTRATION

Learn skills for creating digital illustrations, designs, and artworks through creative projects using Adobe Illustrator. This course will utilize the industry standard vector-based illustration software to create vector graphics for use in art, design, digital publishing, and the web. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA;
48-54 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent. ART 430 or equivalent.

Transfer Credit: CSU, UC

ART 440 INTRODUCTION TO WEB DESIGN

An introduction to creating web sites and web graphics using popular industry-standard authoring tools and design software. The course introduces the basics of layout for visual communication by integrating design concepts with technical execution in a web environment. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA;
48-54 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU, UC

ART 441 INTERMEDIATE WEB DESIGN

Exploration of intermediate design processes for the web with an emphasis on visual design and web technologies. Various industry standard software applications and web technologies are employed to create original graphics, control layout and type, process images, and publish professional websites. Topics may include in-depth discussions on the design strategies used for combining text, images, animation, video, audio, and third party API's to create compelling visual experiences for web users. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 32-36 TBA;
32-36 Homework

Prerequisites: ART 440 or equivalent.

Transfer Credit: CSU, UC

ART 475 DIGITAL FILMMAKING I

Concentration on production techniques used in movies, television, documentaries, music videos, and commercials. This hands-on class includes digital camcorder (or DSLR) operation, basic composition, camera movement, and use of natural lighting. Other topics include on-location audio recording, composition aesthetics, digital video fundamentals, editing, and career options. Also listed as DMAD 475. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 32-36 TBA;
32-36 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU, UC

ART 479 TYPOGRAPHY

Explores the history and perceptual development of letterforms and the application of typography in art and design. Language and technology will be reviewed. Creative Projects will demonstrate theoretical concepts and their application. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA;
48-54 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU, UC

ART 665 SPECIAL TOPICS IN ART

Lecture-based sections (1 or 2 or 3 units): Hours/semester: 16-18, 32-36 or 48-54 lecture/additional hours by arrangement where indicated. Studio-activity sections (.5 or 1 or 2 or 3 units): Hours/semester: 24-27, 48-54, 96-108 or 144-162 lab/additional studio hours and/or hours by arrangement. Specialized courses in Art designed for the focused investigation of a particular issue or topic. The courses are designed to address either artistic theoretical or rhetorical issues, or to acquire technical or craftsmanship skills of particular materials and processes associated with a specific studio art. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 16-54 Lecture; 24-162 Lab; 32-108 Homework

Recommended: ENGL 846 or ESOL 400 or equivalent for lecture-based sections., Successful completion of a beginning art studio course or equivalent for studio-activity sections.

Transfer Credit: CSU

ART 667 SPECIAL TOPICS IN ART

Lecture-based sections (1 or 2 or 3 units): Hours/semester: 16-18, 32-36 or 48-54 lecture/additional hours by arrangement where indicated. Studio-activity sections (.5 or 1 or 2 or 3 units): Hours/semester: 24-27, 48-54, 96-108 or 144-162 lab/additional studio hours and/or hours by arrangement. Specialized courses in Art designed for the focused investigation of a particular issue or topic. The courses are designed to address either artistic theoretical or rhetorical issues, or to acquire technical or craftsmanship skills of particular materials and processes associated with a specific studio art. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 0.5 - 3

Hours/semester: 16-54 Lecture; 24-162 Lab; 32-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400 or equivalent for lecture-based sections., Eligibility for Successful completion of a beginning art studio course, or equivalent for studio-activity sections.

Transfer Credit: CSU

ART 695 INDEPENDENT STUDY IN ART

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

Astronomy

ASTR 100 INTRODUCTION TO ASTRONOMY

Survey of modern astronomy including the study of what mankind understands about the universe and our place in it. Emphasis on how mankind has learned about the planets, stars, galaxies and their structure and formation. Quasars, pulsars, black holes and the beginning and the end of the universe are discussed. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of MATH 110, or MATH 111 and MATH 112, with a grade of C or better, or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B1), UC (IGETC Area 5A)

ASTR 101 ASTONOMY LABORATORY

Constellation identification, understanding of right ascension and declination, and basic astronomical measurements of our moon, planets, stars, and universe. Telescopic and naked eye observations will be assigned. This course will develop the student's awareness of the scientific method and how to apply it to specific problems and their solutions. *Letter Grade Only.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Completion of, or concurrent enrollment in, ASTR 100 or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B3), UC (IGETC Area 5C)

Automotive Technology

AUTO 510 BASIC HYBRID POWERTRAINS

A survey of today's hybrid vehicle powertrains. Hands-on experience performing scheduled hybrid maintenance services. Introduction to hybrid vehicle diagnosis and repair. Development of entry-level skills needed to work on hybrid vehicles in a professional environment. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Recommended: AUTO 713 or AUTO 773 and AUTO 751 or equivalent industry experience.

Transfer Credit: CSU

AUTO 511 PRINCIPLES OF HYBRID AND ELECTRIC DRIVES

A comprehensive survey of today's hybrid vehicle powertrains. Lectures on subjects such as battery packs, power electronics, and electric motor theory are supported by labs covering intermediate and advanced diagnosis of hybrids and/or electric drives. This course is a core requirement of the Hybrid and Electric Drives certificate program. *Letter Grade Only. Degree Credit.*

Units: 7

Hours/semester: 104-117 Lecture; 24-27 Lab; 208-234 Homework

Prerequisites: AUTO 713 or AUTO 773 and AUTO 751 or equivalent industry experience.

Transfer Credit: CSU

AUTO 524 SMOG CHECK INSPECTOR TRAINING LEVEL I

Intended to provide students with fundamental knowledge of engine and emission control theory, design, and operation. Students who successfully complete this training course will have met the first of two requirements for the Smog Check Inspector license. This course is not required for students who hold ASE or BAR A6, A8, and L1 certifications. *Letter Grade Only. Degree Credit.*

Units: 3.5

Hours/semester: 56-63 Lecture; 16-18 Lab; 112-126 Homework

Transfer Credit: CSU

AUTO 525 SMOG CHECK INSPECTOR TRAINING LEVEL II

Intended to provide students with the knowledge, skills, and abilities needed to perform Smog Check inspections. Students who successfully complete this training will have met step two of the Bureau of Automotive Repair's training requirements to qualify to take the Smog Check Inspector state licensing examination if they have met the recommended course preparations. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 8-9 Lab; 64-72 Homework

Recommended: BAR Specified Criteria: ASE A6, A8 and L1; or Associate Degree/Certificate in Automotive Technology and one year of experience, or two years experience and BAR Alternative/ASE equivalency training.

Transfer Credit: CSU

AUTO 541 ELECTRICITY AND ELECTRONICS I

Study of entry level automotive electricity and solid state electronics. Emphasis is placed on the theory of automotive electrical system operational dynamics for both direct and alternating circuits. In addition safe and proper use of digital multimeters, digital storage oscilloscopes, starting & charging system testers and capacitance battery testers will be used while testing electrical circuits. Starting and charging system will be covered in detail. This is the first course in a series of three electrical courses that will prepare the student to pass industry standard Automotive Service Excellence (ASE) A6 Electrical certification. *Letter Grade Only. Degree Credit.*

Units: 2.5

Hours/semester: 40-45 Lecture; 8-9 Lab; 80-90 Homework

Transfer Credit: CSU

AUTO 542 ELECTRICITY AND ELECTRONICS II

An in-depth study of electrical diagnosis and repair. Analysis and diagnosis of body electrical schematics and circuitry. Proper and safe usage of the digital multimeter, 12-volt test light, jumper wires and the digital storage oscilloscope. Proper circuit analysis and troubleshooting techniques. This is the second course in a series of three electrical courses. *Letter Grade Only. Degree Credit.*

Units: 2.5

Hours/semester: 40-45 Lecture; 8-9 Lab; 80-90 Homework

Recommended: AUTO 541 knowledge of basic automotive electrical system operation and circuits.

Transfer Credit: CSU

AUTO 546 BODY CONTROL SYSTEMS

Course topics include heating, cooling and ventilation systems; body controls; scan tool usage and diagnosis; and hybrid theory and operation. *Letter Grade Only. Degree Credit.*

Units: 15

Hours/semester: 180-202.5 Lecture; 180-202.5 Lab; 360-405 Homework

Prerequisites: Admission to the Automotive Technology Program.

Transfer Credit: CSU

AUTO 665 SELECTED TOPICS IN AUTOMOTIVE

These short courses are designed for automotive professionals who need to meet current Smog Check licensing requirements and prepare for the Automotive Service Excellence (ASE) certification test. *Pass/No Pass Only.*

Units: 0.5 - 1.5

Hours/semester: 8-27 Lecture; 16-54 Homework

Transfer Credit: CSU

AUTO 670 VOCATIONAL COOPERATIVE EDUCATION IN AUTOMOTIVE

Students may receive credit for work experience related to their major field or to their established career goal. Seminars and individual conferences are scheduled at convenient times during the semester for the instructor and the student to establish learning objectives related to the student's employment. Students are given appropriate assignments related to the stated objectives and graded in accordance with the college's established grading system. As an alternative, related instruction classes meeting one hour per week, usually in the evening, are available for those students who prefer or need a more structured learning process. One unit of credit for each 75 hours worked per semester, with a maximum of four units per semester, may be earned by students with jobs related to their academic or occupational majors or goals. May be repeated for credit up to 16 units. This limitation applies to Occupational Cooperative Education work experience courses offered within the SMCCCD. *Pass/No Pass Only.*

Units: 1

Hours/semester: 75 Work Experience

Prerequisites: Permission of the Cooperative Education Office, concurrent enrollment in a planned vocational program, and employment in a college-approved job directly related to the student's academic major.

Transfer Credit: CSU

AUTO 695 INDEPENDENT STUDY IN AUTOMOTIVE TECHNOLOGY

Designed for students who are interested in furthering their knowledge via self-paced, individualized, directed instruction provided in selected areas to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

AUTO 708 AUTOMOTIVE PRINCIPLES LAB

Student is encouraged to perform minor maintenance procedures for own vehicle. A general elective for those desiring a basic knowledge of the automobile. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1 - 2

Hours/semester: 16-18 Lecture; 32-36 Lab; 32-36 Homework

Transfer Credit: CSU

AUTO 709 AUTOMOTIVE SERVICE ORIENTATION

Entry-level job skills necessary to gain employment in the automotive service industry. Students will learn tire services, oil and filter changes, vehicle lubrication, battery testing, and pre-delivery inspection procedures. *Letter Grade Only. Degree Credit.*

Units: 2.5

Hours/semester: 24-27 Lecture; 48-54 Lab; 48-54 Homework

Transfer Credit: CSU

AUTO 710 FUNDAMENTALS OF AUTOMOTIVE TECHNOLOGY

An introduction to the Automotive Technology program and profession. A survey of the basic tools and fasteners and related mathematics required in automotive service. This course is recommended for those students desiring



entrance into the Automotive Technology day program.
Letter Grade Only. Degree Credit.

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Transfer Credit: CSU

AUTO 711 AUTOMOTIVE ENTRY LEVEL TECHNICIAN - CAREER ADVANCEMENT ACADEMY

Designed to teach basic automotive skills, including performing oil changes, safety inspections, fluid flushing procedures, tire inspection and repair, and preparing work orders and recommendations. *Letter Grade Only. Degree Credit.*

Units: 8

Hours/semester: 96-108 Lecture; 96-108 Lab; 192-216 Homework

Recommended: Eligibility for ENGL 828, or equivalent.

Transfer Credit: CSU

AUTO 713 AUTOMOTIVE ELECTRICITY AND ELECTRONICS

This course involves the study of electrical fundamentals, electrical test equipment, automotive batteries, starting and charging systems, writing diagrams, lighting circuits, various advanced body electrical circuits and controls. Primary emphasis is on diagnosis, testing, and repair. *Letter Grade Only. Degree Credit.*

Units: 15

Hours/semester: 180-202.5 Lecture; 180-202.5 Lab; 360-405 Homework

Prerequisites: Admission to the Automotive Technology Program.

Transfer Credit: CSU

AUTO 721 AUTOMOTIVE STEERING, SUSPENSION & BRAKES

A study of automotive steering, suspension, and brakes. Emphasis will be placed on the theory, operation, diagnosis, and repair of modern braking systems, steering and suspension systems. Topics include: four-wheel steering, tires and wheels, supplemental inflatable restraints, power steering, power and anti-lock braking systems. *Letter Grade Only. Degree Credit.*

Units: 15

Hours/semester: 180-202.5 Lecture; 180-202.5 Lab; 360-405 Homework

Prerequisites: Admission to the Automotive Technology Program.

Transfer Credit: CSU

AUTO 734 AUTOMOTIVE ENGINE DIAGNOSIS AND REPAIR

A detailed study of various engine designs and materials. Lab will include diagnosis, inspection, repair methods, and parts necessary for complete repair. Also, various machines and machining operations will be covered. *Letter Grade Only. Degree Credit.*

Units: 15

Hours/semester: 180-202.5 Lecture; 180-202.5 Lab; 360-405 Homework

Prerequisites: Admission to the Automotive Technology program.

Transfer Credit: CSU

AUTO 735 AUTOMOTIVE TRANSMISSION & DRIVE TRANS DIAGNOSIS AND REPAIR

A detailed study of the clutch, standard and automatic transmissions, drive lines and differentials: theory of operation including: friction materials, hydraulics, torque converters, gear trains, planetary gears, and controls as well as gear ratios, torque manipulation, speeds, drive line angles and tooth patterns. *Letter Grade Only. Degree Credit.*

Units: 15

Hours/semester: 180-202.5 Lecture; 180-202.5 Lab; 360-405 Homework

Prerequisites: Admission to the Automotive Technology program.

Transfer Credit: CSU

AUTO 739 OBD II EVAPORATIVE EMISSION SYSTEMS

In-depth study of evaporative emissions systems used on OBD II vehicles. Topics include the operation, diagnosis, and repair of vacuum decay, leak detection pumps, natural vacuum leak detection, and on-board refueling vapor recovery systems. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 12-13.5 Lab; 48-54 Homework

Transfer Credit: CSU

AUTO 745 ASIAN BRAKES AND CHASSIS

Study of mechanical and hydraulic brake systems, steering and suspension systems, tires, and wheel alignment. Emphasis will be placed on system operation, diagnosis, adjustment, testing, and repair. *Letter Grade Only. Degree Credit.*

Units: 15

Hours/semester: 180-202.5 Lecture; 180-202.5 Lab; 360-405 Homework

Prerequisites: Admission to the Automotive Technology Program.

Transfer Credit: CSU

AUTO 749 ASIAN ENGINE PERFORMANCE

This course involves the basic study of ignition systems, fuel systems, emission control, computer control, and driveability diagnostics. Students will receive instruction necessary to take the Automotive Service Excellence examination in the area of Engine Performance. *Letter Grade Only. Degree Credit.*

Units: 15

Hours/semester: 180-202.5 Lecture; 180-202.5 Lab; 360-405 Homework

Prerequisites: Admission to the Automotive Technology program.

Transfer Credit: CSU

AUTO 751 AUTOMOTIVE ENGINE PERFORMANCE

A study of the engine sub-systems responsible for good engine performance, clean air, and fuel economy. Systems to be covered include: ignition, fuel, emission, and computer controls. *Letter Grade Only. Degree Credit.*

Units: 15

Hours/semester: 154-173.25 Lecture; 206-231.75 Lab; 308-346.5 Homework

Prerequisites: Admission to the Automotive Technology Program.

Transfer Credit: CSU

AUTO 752 ADVANCED ENGINE PERFORMANCE

An in-depth study of domestic and import computerized engine controls. Emphasis will be placed on the theory, operation, and testing procedures necessary to accurately diagnose and repair driveability complaints. Students will receive instruction necessary to take the State of California test for obtaining a Qualified Test and Repair Mechanic's License (Smog). *Letter Grade Only. Degree Credit.*

Units: 15

Hours/semester: 180-202.5 Lecture; 180-202.5 Lab; 360-405 Homework

Prerequisites: Admission to the Automotive Technology Program or demonstration of equivalent skills; and AUTO 751 or equivalent.

Transfer Credit: CSU

AUTO 753 AUTOMOTIVE SERVICE ADVISING

This course involves the basic study of automotive service advising and procedures. Topics include: greeting the customer, writing the initial work orders, estimating labor charges, revising repair estimates in accordance with California law, conflict resolution, and returning the vehicle to the customer. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

AUTO 754 HIGH PERFORMANCE ENGINES I

The theory and design of High Performance Engines (Part 1). Emphasis is placed on the induction system. Topics discussed include intake and exhaust manifold designs, camshaft design and selection, and cylinder head modifications for maximum efficiency. May be repeated once for credit. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Professional Experience

Transfer Credit: CSU

AUTO 755 HIGH PERFORMANCE ENGINES II

Theory and design of High Performance Engines (Part II). Emphasis is placed on crankshaft assembly, lubrication and cooling, power measurements and tuning. Topics include design of pistons, piston rings and pins, connecting rods, crankshafts and bearings. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: AUTO 854 or

Transfer Credit: CSU

AUTO 758 AUTOMOTIVE COMPUTER CONTROLS

A study of the various inputs, outputs, and models of operation common to most computer controlled systems. General diagnosis will be emphasized using multimeters, lab scopes, and scan tools. Students will be introduced to OBD II systems. This course will also assist technicians

preparing for the State of California Smog License and the ASE L1 exams. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 Lab; 96-108 Homework

Transfer Credit: CSU

AUTO 765 IGNITION SYSTEMS I

A study of automotive ignition systems. Emphasis is placed on the theory, operation, and testing of electronic and distributorless ignition systems. It is recommended that this course be completed prior to enrolling in the Clean Air Car course. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Recommended: Professional experience

Transfer Credit: CSU

AUTO 768 ON-BOARD DIAGNOSTICS II (OBDII)

Tailored for automotive professionals, an in-depth study of generic On-Board Diagnostics II. Content includes history of OBD-II, comparison of OBD-I and OBD-II, J1930 Common Terminology, Flash Programming, Enhanced Monitors, Fuel Trim Strategies and MIL Strategies and Enabling Criteria, Drive Cycles, I/M Readiness flags, and Diagnostic Trouble Codes. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 40-45 Lecture; 24-27 Lab; 80-90 Homework

Transfer Credit: CSU

AUTO 769 HEAD & VALVE SERVICE

In-depth study of all aspects of cylinder head components, diagnosing, disassembly, repair, reassembly, and use of various tools and equipment. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 12-13.5 Lab; 64-72 Homework

Recommended: Professional experience

Transfer Credit: CSU

AUTO 776 DRIVE LINES AND DIFFERENTIALS

A study of the principles and operation of drive lines and differentials. Emphasis will be on measuring and correcting drive line angles, diagnosis, and repair of differentials, and preventive maintenance of these components. May be

repeated once for credit. Transfer: AUTO 776 - CSU. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 12-13.5 Lab; 64-72 Homework

Recommended: Professional experience.

Transfer Credit: CSU

AUTO 777 AUTOMATIC TRANSMISSIONS I

A study of the operating principles of automatic transmissions and transaxles used on domestic and import vehicles. Power flow and hydraulic/electrical controls will be studied. Preventive maintenance, diagnosis and repair procedures are included. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

AUTO 778 MANUAL TRANSMISSIONS I

A detailed study of the clutch assembly, manual transmissions and transaxles. Topics of study include: theory of operation, gear trains and ratios, diagnosis, repair and overhaul. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 12-13.5 Lab; 64-72 Homework

Transfer Credit: CSU

AUTO 779 BLOCK SERVICE

A study of the proper methods of disassembling, measuring, machining, and reassembling engine blocks. Various machining equipment, safe working habits, and the handling of waste coolant, oil and oil filters is included. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 12-13.5 Lab; 64-72 Homework

Transfer Credit: CSU

AUTO 786 AUTOMOTIVE AIR CONDITIONING I

Theory and operation of cooling, heating, and air conditioning systems. Lab practices include maintenance, testing, diagnosis, and repair of these systems. Preparation for the ASE Certification Test is included. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 12-13.5 Lab; 64-72 Homework

Recommended: Professional experience.

Transfer Credit: CSU

AUTO 787 AUTOMATIC TRANSMISSIONS II

A study of the operating principles of the automatic transaxle used on the front wheel drive domestic and import vehicles. Power flow and hydraulic/electrical controls will be studied. Also included will be the final drive gear systems. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Professional experience

Transfer Credit: CSU

AUTO 790 AUTOMOTIVE BRAKES I

A study of automotive braking systems. Emphasis will be placed on the theory of operation, diagnosis, and repair of modern braking systems and their related components. Preparation for the State Brake Test and ASE Certification Test is included. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 12-13.5 Lab; 64-72 Homework

Recommended: Professional experience

Transfer Credit: CSU

AUTO 791 AUTOMOTIVE CHASSIS II

Study of four wheel alignment and steering geometry, including alignment angle theory, testing, and adjustments, with the major emphasis placed on the diagnosis of alignment related problems. It is recommended that AUTO 792/853 Automotive Chassis I, be taken first. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 12-13.5 Lab; 64-72 Homework

Transfer Credit: CSU

AUTO 792 AUTOMOTIVE CHASSIS I

Study of mounting, balancing and repair of wheels and tires. In addition, various adjustments and repairs of steering and suspension systems will be covered. May be repeated for credit a maximum of 3 times. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Professional experience.

Transfer Credit: CSU

AUTO 793 ENGINE PERFORMANCE

A study of the engine sub-systems responsible for good engine performance, clean air, and fuel economy. Topics cover include basic engine and ignition system operation and testing using various diagnostic test equipment. This course can be applied towards the education requirements necessary for eligibility to take the B.A.R. Smog Test. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Professional Experience

Transfer Credit: CSU

AUTO 822 HEAD AND VALVE SERVICES (APPRENTICESHIP)

In-depth study of all aspects of cylinder head components, diagnosing, disassembly, repair, reassembly, and use of various tools and equipment. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 24-27 Lab; 64-72 Homework

Prerequisites: Automotive Apprentice.

Recommended: Professional Experience.

AUTO 823 BLOCK SERVICE (APPRENTICESHIP)

A study of the proper methods of disassembling, measuring, machining, and reassembling engine blocks. Various machining equipment, safe working habits, and the handling of waste coolant, oil and oil filters is included. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 24-27 Lab; 64-72 Homework

Prerequisites: Automotive Apprentice.

AUTO 824 SMOG CHECK INSPECTOR TRAINING LEVEL I (APPRENTICESHIP)

Intended to provide students with fundamental knowledge of engine and emission control theory, design, and operation. Students who successfully complete this training course will have met the first of two requirements for

the Smog Check Inspector license. This course is not required for students who hold ASE or BAR A6, A8, and L1 certifications. *Letter Grade Only. Degree Credit.*

Units: 3.5

Hours/semester: 56-63 Lecture; 16-18 Lab; 112-126 Homework

AUTO 825 SMOG CHECK INSPECTOR TRAINING LEVEL II (APPRENTICESHIP)

Intended to provide students with the knowledge, skills, and abilities needed to perform Smog Check inspections. Students who successfully complete this training will have met step two of the Bureau of Automotive Repair's training requirements to qualify to take the Smog Check Inspector state licensing examination if they have met the recommended course preparations. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 8-9 Lab; 64-72 Homework

Recommended: BAR Specified Criteria: ASE A6, A8 and L1; or Associate Degree/Certificate in Automotive Technology and one year of experience, or two years experience and BAR Alternative/ASE equivalency training.

AUTO 830 DRIVE LINES AND DIFFERENTIALS (APPRENTICESHIP)

A study of the principles and operation of drive lines and differentials. Emphasis will be on measuring and correcting drive line angles, diagnosis, and repair of differentials, and preventive maintenance of these components. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 12-13.5 Lab; 64-72 Homework

Prerequisites: Automotive Apprentice.

AUTO 832 AUTOMATIC TRANSMISSIONS I (APPRENTICESHIP)

A study of the operating principles of automatic transmissions & transaxles domestic and import vehicles. Power flow and hydraulic/electrical controls will be studied. Preventive maintenance, diagnosis, and repair procedures are included. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Automotive Apprentice.

AUTO 839 OBD II EVAPORATIVE EMISSION SYSTEMS (APPRENTICESHIP)

In-depth study of evaporative emissions systems used on OBD II vehicles. Topics include the operation, diagnosis, and repair of vacuum decay, leak detection pumps, natural vacuum leak detection, and on-board refueling vapor recovery systems. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 12-13.5 Lab; 48-54 Homework

Prerequisites: Automotive Apprentice

AUTO 850 AUTOMOTIVE BRAKES I (APPRENTICESHIP)

A study of automotive braking systems. Emphasis will be placed on the theory of operation, diagnosis, and repair of modern braking systems and their related components. Preparation for the State Brake Test and ASE Certification Test is included. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 36-40.5 Lecture; 12-13.5 Lab; 72-81 Homework

Prerequisites: Automotive Apprentice

AUTO 851 AUTOMOTIVE SERVICE ADVISING (APPRENTICESHIP)

This course involves the basic study of automotive service advising and procedures. Topics include: greeting the customer, writing the initial work orders, estimating labor charges, revising repair estimates in accordance with California law, conflict resolution, and returning the vehicle to the customer. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Automotive Apprentice

AUTO 852 AUTOMOTIVE CHASSIS II (APPRENTICESHIP)

Study of four wheel alignment and steering geometry, including alignment angle theory, testing, and adjustments, with the major emphasis placed on the diagnosis of alignment related problems. It is recommended that AUTO 792/853 Automotive Chassis I, be taken first. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 12-13.5 Lab; 64-72 Homework

Prerequisites: Automotive Apprentice

AUTO 853 AUTOMOTIVE CHASSIS I (APPRENTICESHIP)

Study of mounting, balancing and repair of wheels and tires. In addition, various adjustments and repairs of steering and suspension systems will be covered. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Automotive Apprentice

AUTO 854 HIGH PERFORMANCE ENGINES I (APPRENTICESHIP)

The theory and design of High Performance Engines (Part 1). Emphasis is placed on the induction system. Topics discussed include intake and exhaust manifold designs, camshaft design and selection, and cylinder head modifications for maximum efficiency. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Automotive Apprentice

AUTO 855 HIGH PERFORMANCE ENGINES II (APPRENTICESHIP)

Theory and design of High Performance Engines (Part II). Emphasis is placed on crankshaft assembly, lubrication and cooling, power measurements and tuning. Topics include design of pistons, piston rings and pins, connecting rods, crankshafts and bearings. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Automotive Apprentice

Recommended: AUTO 854 or AUTO 754 or equivalent.

AUTO 858 AUTOMOTIVE COMPUTER CONTROLS (APPRENTICESHIP)

A study of the various inputs, outputs, and models of operation common to most computer controlled systems. General diagnosis will be emphasized using multimeters, lab scopes, and scan tools. Students will be introduced to OBD II systems. This course will also assist technicians preparing for the State of California Smog License and the ASE L1 exams. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 Lab; 96-108 Homework

Prerequisites: Automotive Apprentice

AUTO 860 AUTOMOTIVE AIR CONDITIONING I (APPRENTICESHIP)

Theory and operation of cooling, heating, and air conditioning systems. Lab practices include maintenance, testing, diagnosis, and repair of these systems. Preparation for the ASE Certification Test is included. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 12-13.5 Lab; 64-72 Homework

Prerequisites: Automotive Apprentice

AUTO 865 IGNITION SYSTEMS I (APPRENTICESHIP)

A study of automotive ignition systems. Emphasis is placed on the theory, operation, and testing of electronic and distributorless ignition systems. It is recommended that this course be completed prior to enrolling in the Clean Air Car course. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Prerequisites: Automotive Apprentice

AUTO 868 ON-BOARD DIAGNOSTICS II (OBDII) (APPRENTICESHIP)

Tailored for automotive professionals, an in-depth study of generic On-Board Diagnostics II. Content includes history of OBD-II, comparison of OBD-I and OBD-II, J1930 Common Terminology, Flash Programming, Enhanced Monitors, Fuel Trim Strategies and MIL Strategies and Enabling Criteria, Drive Cycles, I/M Readiness flags, and Diagnostic Trouble Codes. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 40-45 Lecture; 24-27 Lab; 80-90 Homework

Prerequisites: Automotive Apprentice

AUTO 878 MANUAL TRANSMISSIONS I (APPRENTICESHIP)

A detailed study of the clutch assembly, manual transmissions and transaxles. Topics of study include:



theory of operation, gear trains and ratios, diagnosis, repair and overhaul. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 12-13.5 Lab; 64-72 Homework

Prerequisites: Automotive Apprentice

AUTO 887 AUTOMATIC TRANSMISSIONS II (APPRENTICESHIP)

A study of the operating principles of the automatic transaxle used on the front wheel drive domestic and import vehicles. Power flow and hydraulic/electrical controls will be studied. Also included will be the final drive gear systems. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Automotive Apprentice

AUTO 893 ENGINE PERFORMANCE (APPRENTICESHIP)

A study of the engine sub-systems responsible for good engine performance, clean air, and fuel economy. Topics cover include basic engine and ignition system operation and testing using various diagnostic test equipment. This course can be applied towards the education requirements necessary for eligibility to take the B.A.R. Smog Test. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Automotive Apprentice.

AUTO 910 BASIC HYBRID POWERTRAINS (APPRENTICESHIP)

A survey of today's hybrid vehicle powertrains. Hands-on experience performing scheduled hybrid maintenance services. Introduction to hybrid vehicle diagnosis and repair. Development of entry-level skills needed to work on hybrid vehicles in a professional environment. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: Student is a registered State indentured apprentice.

Recommended: AUTO 713 or AUTO 773 and AUTO 751 or equivalent industry experience.

AUTO 941 ELECTRICITY AND ELECTRONICS I (APPRENTICESHIP)

Study of entry level automotive electricity and solid state electronics. Emphasis is placed on the theory of automotive electrical system operational dynamics for both direct and alternating circuits. In addition safe and proper use of digital multimeters, digital storage oscilloscopes, starting & charging system testers and capacitance battery testers will be used while testing electrical circuits. Starting and charging system will be covered in detail. This is the first course in a series of three electrical courses that will prepare the student to pass industry standard Automotive Service Excellence (ASE) A6 Electrical certification. Typically most students will need to pass the first and second level electrical course in order to pass the ASE (A6) certification test. *Letter Grade Only. Degree Credit.*

Units: 2.5

Hours/semester: 40-45 Lecture; 8-9 Lab; 80-90 Homework

Prerequisites: Automotive Apprentice.

AUTO 942 ELECTRICITY AND ELECTRONICS II (APPRENTICESHIP)

An in-depth study of electrical diagnosis and repair. Analysis and diagnosis of body electrical schematics and circuitry. Proper and safe usage of the digital multimeter, 12-volt test light, jumper wires and the digital storage oscilloscope. Proper circuit analysis and troubleshooting techniques. This is the second course in a series of three electrical courses. *Letter Grade Only. Degree Credit.*

Units: 2.5

Hours/semester: 40-45 Lecture; 8-9 Lab; 80-90 Homework

Prerequisites: Automotive Apprentice.

Recommended: AUTO 941 or AUTO 541 or equivalent; and knowledge of basic automotive electrical system operation and circuits.

Biology

NOTE TO LIFE SCIENCE MAJORS: Students planning to major in Biology, Biotechnology, Botany, Zoology, Ecology, Microbiology, Anatomy, Physiology, Forestry, Wildlife Management, Natural Resources, Medicine, Dentistry, Veterinary Medicine, Optometry, and Pharmacy should complete BIOL 215 and 230 (taken in sequence) and CHEM 210, 220, 234, 235, 237, 238; PHYS 210, 220, and the appropriate mathematics prerequisites.

BIOL 101 OUR BIOLOGICAL WORLD

Study of biology as it relates to humans and their environment with special emphasis on ecological

interrelationships, evolution and genetics, and topics of current importance. Recommended for non-science majors to fulfill laboratory science transfer requirement. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU (CSU GE Area B2, B3), UC (IGETC Area 5B)

BIOL 110 PRINCIPLES OF BIOLOGY

Using natural selection and physiological survival as a unifying theme, this course deals with the basic problems common to all living systems, and compares the functional solution that various organisms have evolved, illuminating the unity in diversity that characterizes life on earth. Recommended for non-science majors to fulfill laboratory science transfer requirement. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU (CSU GE Area B2, B3), UC (IGETC Area 5B)

BIOL 111 NATURAL HISTORY OF CALIFORNIA

Introduction to common animals and plants of the San Francisco Bay Region, their natural history and distributions. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 16-18 TBA; 80-90 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU (CSU GE Area B2, B3), UC (IGETC Area 5B)

BIOL 130 HUMAN BIOLOGY

Designed to provide students with an appreciation of the structure, function, and development of their own bodies. Topics include an introduction to science and scientific methods of investigation and some elementary chemistry (no previous background necessary) as a basis for understanding human functions such as digestion, circulation, reproduction, heredity, evolution, human

ecological roles and other systems. Some diseases and other causes of body malfunction are discussed. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9B2

Transfer Credit: CSU (CSU GE Area B2), UC (IGETC Area 5B)

BIOL 140 ANIMALS, PEOPLE, AND ENVIRONMENT

This course will familiarize the student with the methods and importance of behavioral investigation in animals. Emphasis on past and current human-animal relationships, the impact on animal populations and increasing need for wildlife protection. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU (CSU GE Area B2), UC (IGETC Area 5B)

BIOL 145 PLANTS, PEOPLE & ENVIRONMENT

A survey of plants emphasizing those aspects of plant biology that have affected the lives of people. Topics include: the success and failure of modern agriculture; the impact of humans on the environment; and the importance of plants in solving critical problems of hunger and conservation of energy. Attention is given to modes of inquiry or ways in which scientists carry out their investigations. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU (CSU GE Area B2), UC (IGETC Area 5B)

BIOL 150 INTRODUCTION TO MARINE BIOLOGY

A non-technical introduction to the scientific method used in studies of marine biology. Major emphasis is given to the natural history of marine animals and plants and their relationship with the oceanic environment. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework



Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU (CSU GE Area B2), UC (IGETC Area 5B)

BIOL 170 PRINCIPLES OF APPLIED BIOSCIENCE

A survey of the principles that govern the living world, from molecules to cells and tissues, to organs and whole organisms, to populations and ecosystems, to the entire biosphere. Special emphasis is placed upon experimental approaches, current issues, and practical application of the scientific method and biological principles to issues affecting public health, agriculture, and socioeconomic change. Current news and developments in relevant areas of biological sciences and biotechnology will be reviewed and discussed. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU (CSU GE Area B2), UC (IGETC Area 5B)

BIOL 171 LABORATORY PRINCIPLES OF APPLIED BIOSCIENCE

The laboratory introduces students to practical methods in preparing materials, reagents and media for conducting biological investigations and products of genetic engineering. Students will learn to measure and prepare solutions of various concentrations and pH, how to use basic chemistry and biological instrumentation such as digital scales, pipettes and micropipettes, centrifuges, and vertical and horizontal electrophoresis apparatuses. Students will plan and conduct biological experiments using the scientific method and employing modern laboratory methods and instrumentation. Data will be analyzed using spreadsheet software for tabulation and graphing. Teamwork, responsible lab technique, and proper and thorough notebook keeping will be emphasized. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Completion of, or concurrent enrollment in,, BIOL 170 or equivalent.

Transfer Credit: CSU (CSU GE Area B3), UC (IGETC Area 5C)

BIOL 215 ORGANISMAL BIOLOGY: CORE I

As part of a two-course core program, BIOL 215 is an introductory survey of organismal form and function. Analysis of fundamental biological functions including nutrition, gas exchange, reproduction, natural selection, and

ecology using representative living organisms. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 48-54 Lecture; 96-108 Lab; 16-18 TBA; 80-90 Homework

Prerequisites: MATH 120 or MATH 123 or appropriate math placement test score and other measures as appropriate, or equivalent.

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU (CSU GE Area B2, B3), UC (IGETC Area 5B, 5C)

C-ID: BIOL 135S, BIOL 140

BIOL 230 INTRODUCTION TO CELL BIOLOGY: CORE II

An introduction to life functions as seen at the cellular level; cellular structure, macromolecular architecture and function, cellular energetics, chemical regulation, photochemical activities, molecular genetics, and genetic engineering. It is the second course in the two-course Biology core sequence. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 48-54 Lecture; 96-108 Lab; 16-18 TBA; 80-90 Homework

Prerequisites: BIOL 215 and CHEM 210 or equivalent

AA/AS Degree Requirements: Area 9B2

Transfer Credit: CSU (CSU GE Area B2, B3), UC (IGETC Area 5B)

C-ID: BIOL 135S; BIOL 190

BIOL 240 GENERAL MICROBIOLOGY

Morphology, taxonomy, ecology, and physiology of microorganisms, with emphasis on bacteria. Laboratory techniques on culture and identification of bacteria. Recommended for agriculture, biochemistry, nursing, pre-medical and pre-dental, biotechnology engineering, and other life science majors. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 16-18 TBA; 80-90 Homework

Prerequisites: Successful completion of a college-level laboratory science course.

Transfer Credit: CSU (CSU GE Area B2, B3), UC (IGETC Area 5B, 5C)

BIOL 250 HUMAN ANATOMY

Gross and microscopic structure of the human body through lecture and laboratory study of dissections, histology slides, anatomy models, and prosected human cadavers. Primarily intended for Nursing, Respiratory Care, Allied Health, Surgical Technology, Kinesiology, and other health-related fields. Elective for pre-dental, premedical, and pre-veterinary students. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 16-18 TBA; 80-90 Homework

Prerequisites: BIOL 100 (taken at Cañada or CSM), or, BIOL 101 or BIOL 110 or BIOL 130 or equivalent.

Transfer Credit: CSU (CSU GE Area B2, B3), UC (IGETC Area 5B, 5C)

C-ID: BIOL 110B

BIOL 260 HUMAN PHYSIOLOGY

Study of how the organ systems function in maintaining homeostasis - regulating change and growth processes in humans. Recommended for students in allied health areas such as nursing, physical therapy, respiratory therapy, radiology, and related fields. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 48-54 Lecture; 96-108 Lab; 96-108 Homework

Prerequisites: BIOL 250 or equivalent; and CHEM 192 or CHEM 210 or CHEM 410 or equivalent.

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9B2

Transfer Credit: CSU (CSU GE Area B2, B3), UC (IGETC Area 5B, 5C)

C-ID: BIOL 120B

BIOL 426 GENETIC ENGINEERING

This course will examine how genes work and how they can be manipulated and cloned. Topics include DNA and protein synthesis, genetic engineering, and DNA fingerprinting. Also includes laboratory experience with DNA analyses: RFLP and PCR. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

BIOL 430 INTRODUCTION TO IMMUNOLOGY

This course will examine the immune system and how it protects us from disease. Topics include vaccine and antiserum production by traditional methods and by genetic engineering. Also includes laboratory experience with laboratory techniques. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

BIOL 432 FERMENTATION TECHNOLOGY

Overview of the origin and development of industrial fermentations. Course will cover fermentations used in the production of beverages, food ingredients, enzymes, chemicals and pharmaceuticals to demonstrate microbial metabolism. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: Eligibility for ENGL 836

Transfer Credit: CSU

BIOL 665 SELECTED TOPICS IN BIOLOGY

This course is designed to develop specific skills, techniques or concepts that are appropriate to biology and/or biotechnology. The course will focus on one specific topic; for example, new or leading edge developments in biotechnology. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 0.5 - 2

Hours/semester: 8-36 Lecture; 16-72 Homework

Transfer Credit: CSU

BIOL 675 HONORS COLLOQUIUM IN BIOLOGY

One lecture hour per week or 3 lab hours per week. Corequisite: Concurrent enrollment in any non-honors biology level 100 or 200 course. Readings, discussion and lectures covering selected advanced topics in biology to be determined by the Biology Department and the Honors Program. May be repeated three times for credit. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Corequisites: Completion of or concurrent enrollment in any non-honors biology level 100 or 200 course.

Transfer Credit: CSU

BIOL 695 INDEPENDENT STUDY IN BIOLOGY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

Biotechnology

BTEC 150 BIOTECHNOLOGY INSTRUMENTATION: QUALITY CONTROL AND GENETIC ENGINEERING

Familiarizes students with small scale laboratory instrumentation practices. Students analyze the quality of a cell culture process and the purify products produced by cells in culture using (GLP) methods. Students will gain experience with the common assays used in quality control including electrophoresis, High Performance Liquid Chromatography (HPLC), Enzyme Linked Immunosorbent Assay (ELISA), and the Polymerase Chain Reactions (PCR) to produces generated using cell culture. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 16-18 TBA; 80-90 Homework

Prerequisites: BTEC 400 or equivalent.

Transfer Credit: CSU

BTEC 170 PRINCIPLES OF APPLIED BIOSCIENCE

A survey of the principles that govern the living world, from molecules to cells and tissues, to organs and whole organisms, to populations and ecosystems, to the entire biosphere. Special emphasis is placed upon experimental approaches, current issues, and practical application of the scientific method and biological principles to issues affecting public health, agriculture, and socioeconomic change. Current news and developments in relevant areas

of biological sciences and biotechnology will be reviewed and discussed. Also listed as BIOL 170. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9B2

Transfer Credit: CSU (CSU GE Area B2), UC

BTEC 171 LABORATORY PRINCIPLES OF APPLIED BIOSCIENCE

The laboratory introduces students to practical methods in preparing materials, reagents and media for conducting biological investigations and products of genetic engineering. Students will learn to measure and prepare solutions of various concentrations and pH, how to use basic chemistry and biological instrumentation such as digital scales, pipettes and micropipettes, centrifuges, and vertical and horizontal electrophoresis apparatuses. Students will plan and conduct biological experiments using the scientific method and employing modern laboratory methods and instrumentation. Data will be analyzed using spreadsheet software for tabulation and graphing. Teamwork, responsible lab technique, and proper and thorough notebook keeping will be emphasized. Also listed as BIOL 171. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Completion, of or concurrent enrollment in, BTEC 170 or equivalent.

Transfer Credit: CSU (CSU GE Area B3), UC

BTEC 210 BUSINESS AND REGULATORY PRACTICES IN BIOTECHNOLOGY

An examination of how basic business practices and good manufacturing procedures assure the quality and safety of a product as it is manufactured in the biotechnology production pipeline. The course specifically explores the role of government oversight and regulation during all phases of drug discovery, development and manufacturing. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Prerequisites: BTEC 400 or equivalent.

Transfer Credit: CSU

BTEC 220 CELL CULTURE AND PROTEIN RECOVERY

Allows students to develop the skills needed to serve as a technician in biotechnology production. Students grow and monitor cells and participate in downstream purification on a laboratory scale that emulates the large-scale production used in industry. The course emphasizes the use of current Good Manufacturing Practices (cGMP), current Good Laboratory Practices (cGLP), and students gain experience following Standard Operating Procedures (SOP). *Degree Credit.*

Units: 4

Hours/semester: 32-36 Lecture; 96-108 Lab; 16-18 TBA; 48-54 Homework

Prerequisites: BTEC 170 or equivalent.

Transfer Credit: CSU

BTEC 400 FOUNDATIONS OF BIOTECHNOLOGY

Overview of the origin and development of biotechnology and the bioscience industries. Includes cell growth, medical and food products produced by or impacted by biotechnology, and career opportunities in biotechnology. Also includes laboratory experience with bioreactors and making products. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 16-18 Lecture; 48-54 Lab; 32-36 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

BTEC 480 BIOTECHNOLOGY PROJECT I

Biotechnology work experience in an open lab. Students work under local supervision in an open biotechnology lab under cGMP/cGLP conditions where they develop the process and procedures to create biotechnology product. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 8-9 Lecture; 64 Field Experience; 16-18 Homework

Recommended: Two years of Biotechnology coursework.

Transfer Credit: CSU

BTEC 482 BIOTECHNOLOGY PROJECT II

Biotechnology field experience in an open lab where students prepare and test the manufacturing process of a

biotechnology project in order to produce their product. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 8-9 Lecture; 64 Field Experience; 16-18 Homework

Prerequisites: BTEC 480 or equivalent.

Transfer Credit: CSU

BTEC 484 BIOTECHNOLOGY RESEARCH PROJECT I

Laboratory experience designed to promote discovery research. Working in teams, students conduct research projects that incorporate techniques in microbiology, virology, and molecular biology and involve use of bioinformatics tools and other computational analysis software. Emphasis is on reading and understanding scientific literature as well as improving critical thinking skills such as the ability to evaluate hypotheses or experimentally address scientific questions. Also addressed will be critical aspects of the research process including record keeping, ethics, laboratory safety and citizenry, mechanics of scientific writing, and project responsibilities and ownership. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 8-9 Lecture; 64 Field Experience; 16-18 Homework

Recommended: Prior coursework in Biotechnology.

Transfer Credit: CSU

Business

See also listings under Accounting, Business Computer Systems and Management, Computer Science, International Business and Management.

BUS. 100 INTRODUCTION TO BUSINESS

A basic orientation course designed to develop a foundation of business practices and the role of business in the economy, and as an aid in selecting a field of specialization. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC

C-ID: BUS 110

BUS. 101 HUMAN RELATIONS AT WORK

Application of basic principles in the behavioral sciences, communication, practical problems of personal growth, self-management, and the development of healthy, productive, interpersonal relationships, in the workplace. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9D3

Transfer Credit: CSU (CSU GE Area D)

BUS. 103 INTRODUCTION TO BUSINESS INFORMATION SYSTEMS

Introduction to computer systems and software applications and their impact on the business environment. Topics include computer architecture, hardware, software, computer terminology and theory. Students use software applications as problem solving tools for business projects. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. BCM. 104 or equivalent.

Transfer Credit: CSU, UC

BUS. 115 BUSINESS MATHEMATICS

A study of mathematics as applied to business, with emphasis on word problems involving interest, discount, negotiable instruments, financial statements and ratios, inventory pricing, depreciation, payroll, income tax, annuities, and amortization. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 811 or equivalent.

Transfer Credit: CSU

BUS. 120 MATHEMATICAL ANALYSIS FOR BUSINESS

To give students the mathematical tools they will need to succeed in the core courses in the business curriculum at the state universities. Includes introduction to calculus including applications; probability, including expected monetary value and decision making; mathematics of

finance, including amortization. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 120 or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

BUS. 123 STATISTICS

Introduction to basic statistical methods, descriptive statistics, classification of data, probability, probability distributions, hypothesis testing, estimates and sample sizes, correlation and regression, chi-square tests, and analysis of variance. Use of technology to analyze data from business, life sciences, social sciences, psychology, health science, education, and physical science. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 120 or MATH 190 or equivalent.

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent. BUS. 120 or equivalent.

AA/AS Degree Requirements: Area 9A3

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

BUS. 150 ENTREPRENEURSHIP - SMALL BUSINESS MANAGEMENT

For potential or present entrepreneurs with or without prior experience. An emphasis on the mindset of the entrepreneur, business model concepts, business management, marketing, 21st century skills and developing a business pitch. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

BUS. 161 CREATIVITY AND INNOVATION IN ENTREPRENEURSHIP

Emphasis on creativity and innovation as a strategic process. Includes the role of risk-taking in entrepreneurship, opportunities that lead to successful business ventures and the examination of personality traits of successful entrepreneurs. For potential or present entrepreneurs with no prior business experience. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

BUS. 163 ACCOUNTING AND FINANCE FOR ENTREPRENEURS

An introduction to accounting and finance concepts for aspiring entrepreneurs and small business managers. Emphasis on understanding financial statements and the underlying accounting concepts, cash flow management, and sources of capital. Course aims to provide students with the essential skills required to effectively manage the financial resources of a new or existing business. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of MATH 110, or MATH 111 and MATH 112, with a grade of C or better, or equivalent.

Transfer Credit: CSU

BUS. 166 THE BUSINESS PLAN

Preparation of a compelling and well-researched business plan to be used as a guide for starting or managing a small business. Emphasis is placed on formulation of effective strategies with the goal of achieving sustainable market advantage within the political, social, and economic environment. The role of business incubators as a means of leveraging physical and intellectual resources to accelerate and ensure the success of entrepreneurial businesses is also examined. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: BUS. 163 and BUS. 180 or equivalent.

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of MATH 110, or MATH 111 and MATH 112, with a grade of C or better, or equivalent.

Transfer Credit: CSU

BUS. 180 PRINCIPLES OF MARKETING

An overview of the fundamental concepts, principles and applications for both Business-to-Consumer and Business-to-Business marketing. Examines the marketing mix – the four Ps of marketing--product, price, placement, promotion--and the role of each in effective marketing. Also addresses market research, target marketing and marketing planning. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

BUS. 190 INTRODUCTION TO RETAIL MANAGEMENT

General overview of retailing with an introduction to buying, pricing, sales promotion, store management and organization, retail calculations, retail salesmanship, and service policies. Topics include computer-generated sales and advertising. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

BUS. 201 BUSINESS LAW

Origin, development, and functions of the law and the legal environment with the objective of promoting a general understanding of legal reasoning. Framework within which the judicial process takes place. Legal problems pertaining to contracts and related topics, sales, and the impact of law on economic enterprise. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU, UC

C-ID: BUS 120

BUS. 221 GLOBAL BUSINESS COMMUNICATIONS AND NEGOTIATION

Examines the practical aspects of global business communication and negotiation. Includes topics in the nature, pattern and comparisons of intercultural business communication, business and social customs, global negotiation practice and strategies, communication and negotiation in intercultural and global contexts, and region-specific business cultures. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 5a

Transfer Credit: CSU

BUS. 230 INTRODUCTION TO INTERNATIONAL MARKETING

An in-depth analysis of the economic, cultural, political and legal environments in which domestic and international marketing occurs. It is designed to examine marketing functions and their adaptations to those environments such as identification of target market and development of product, promotion, price and place (four P's). The course will introduce a set of conceptual and analytical tools to teach students to apply the "Four Ps" to international marketing which reflect the swift changes of an expanding competitive global market as well as technology's impact on the international market arena. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

BUS. 241 DOING BUSINESS IN ASIA

Course explores business strategies in the Asia-Pacific region. Students will learn how and why business strategies are pursued by multinational corporations and medium-sized businesses doing business in Asia. Students will gain a better insight into the business environment and business protocol in Asia. Topics include business environmental analysis, strategy formulation, strategy implementation and control, and profiles of China, Japan, South Korea, India, Singapore, and South East Asia. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

BUS. 246 DOING BUSINESS IN CHINA

A comprehensive study of Chinese business operations and challenges in dealing with cultural differences, negotiation styles, and business operations. Students will apply practical guidelines in conducting successful negotiations and business ventures with Chinese counterparts. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 12-13.5 TBA; 84-94.5 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

BUS. 248 ASIAN MANAGEMENT SYSTEMS

Course provides a comparative study of Asian management systems such as organizational structures, competitive strategies and cultural influences within Asia and the western world. Students will learn the influence of confucianism, strategic thinking and traditions on Asian management systems and practical guidelines to work with Asian counterparts for successful business ventures. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 8-9 TBA; 88-99 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

BUS. 269 WAREHOUSING AND LOGISTICS

Introduces students to warehouse operations and logistics. Topics include warehousing, software information systems used in warehousing, and OSHA 10 Safety. The class will include hands-on activities in relation to logistics and warehousing. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Transfer Credit: CSU

BUS. 284 PURCHASING AND SUPPLY MANAGEMENT

Introduction to the basic principles of purchasing and supply chain management; its authority, responsibility, and expectations. Emphasis on understanding the purchasing and supply processes, organizational concepts, policy, price and value analysis, and effects of purchasing functions on a company's profit or loss. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

BUS. 285 INVENTORY MANAGEMENT

Introduction to inventory and materials management. Topics include inventory and materials management: types of inventory, forecasting and market analysis, types of demand systems, inventory changes, single order quantities, in-process and just-in-time inventory,

distribution inventory systems, inventory control, valuation and measurement, simulation, and aggregate inventory control. The class will include hands-on activities in relation to inventory management. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: BCM. 200 or equivalent.

BUS. 286 TRANSPORTATION MANAGEMENT

Introduction to basic transportation concepts and the relevance of transportation in our economy. Characteristics of each mode of transportation including rail, highway, carrier pricing, pipelines, air and water will be discussed and evaluated. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

BUS. 287 FUNDAMENTALS OF PROJECT MANAGEMENT

Introduction to project management, including: project scope and objectives, scheduling and estimating, resource allocation, risk management, communication and organization dynamics, project monitoring, controls, and overview of professional credentials. Overview of Project Management Professional certification exam. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

BUS. 296 NEW ECONOMY MARKETING

Overview of marketing trends in the new economy that includes: social media, branding new economy businesses, social responsibility and sustainability as marketing initiatives, small business "guerilla" marketing, customer relationship marketing, demographics and psychographics and targeting as a strategy for localized marketing. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

BUS. 297 BUSINESS PLANNING FOR SUCCESS

Conceive, develop and present a business plan that supports an entrepreneurial or small business idea. Work along side other students as you learn about and implement a successful business plan. This capstone event to E-ship courses will culminate in a competition with other student's business plans. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Transfer Credit: CSU

BUS. 400 BUSINESS ENGLISH

A comprehensive review of English as used by employers. Business-oriented materials are used; areas covered include grammar, punctuation, capitalization, spelling, and vocabulary. Designed for anyone who must communicate in writing in a business environment. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU

BUS. 401 BUSINESS COMMUNICATIONS

An overview of effective business communication skills and their direct relationship to workplace success. Emphasis is placed on the planning, organizing, composing, and revising of business documents such as letters, memos, reports, and emails. Presentation skills, professional behavior in the workplace, and current communication technologies are included with an emphasis on real world problem solving. Digital communication topics include presentation software, emails, business-relevant social media, and mobile technologies. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ENGL 100 or equivalent.

Transfer Credit: CSU

C-ID: BUS 115

BUS. 665 SELECTED TOPICS IN BUSINESS

This course is designed to develop specific skills that are utilized in business settings. The course will focus on one specific topic; for example, a specific software package,



telephone techniques, time management, human relations skills, small business management, etc. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 0.5 - 1.5

Hours/semester: 8-27 Lecture; 16-54 Homework

Transfer Credit: CSU

BUS. 670 VOCATIONAL COOPERATIVE EDUCATION IN BUSINESS

Students may receive credit for work experience related to their major field or to their established career goal. Seminars and individual conferences are scheduled at convenient times during the semester for the instructor and the student to establish learning objectives related to the student's employment. Students are given appropriate assignments related to the stated objectives and graded in accordance with the college's established grading system. As an alternative, related instruction classes meeting one hour per week, usually in the evening, are available for those students who prefer or need a more structured learning process. One unit of credit for each 75 hours worked per semester, with a maximum of four units per semester, may be earned by students with jobs related to their academic or occupational majors or goals. May be repeated for credit up to 16 units. This limitation applies to Occupational Cooperative Education work experience courses offered within the SMCCCD. *Pass/No Pass Only.*

Units: 3

Hours/semester: 225 Work Experience

Prerequisites: Permission of the Cooperative Education Office, concurrent enrollment in a planned vocational program, and employment in a college-approved job directly related to the student's academic major.

Transfer Credit: CSU

BUS. 695 INDEPENDENT STUDY IN BUSINESS

Designed for students who are interested in furthering their knowledge via self-paced, individualized, directed instruction provided in selected areas to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 3

Hours/semester: 24-162 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

Business Computer Systems and Management

See also listings under Computer Science and Network Engineering Technologies.

BCM. 100 BEGINNING COMPUTER KEYBOARDING

An introductory typing course for students who want to learn how to type and develop skill using the computer keyboard. Emphasis is on developing correct techniques and basic keyboarding skills. No typing applications or formatting will be taught. *Pass/No Pass Only. Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 8-9 TBA; 40-45 Homework

Transfer Credit: CSU

BCM. 101 COMPUTER KEYBOARDING SKILL BUILDING

Designed to improve a student's ability to type rapidly and accurately for sustained periods of time without looking at the keyboard. Students may also use the course to improve typing speed and accuracy. *Pass/No Pass Only. Degree Credit.*

Units: 1.5 - 3

Hours/semester: 24-54 Lecture; 8-9 TBA; 40-99 Homework

Recommended: BCM. 100 or equivalent.

Transfer Credit: CSU

BCM. 104 INTRODUCTION TO COMPUTERS WITH WINDOWS I

Through hands-on experience, students will be introduced to PC-compatible computers, the Windows operating system, word processing, spreadsheets, and other business-oriented applications. In a lecture/demonstration format, students will gain a basic knowledge of hardware-software interaction. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 8-9 TBA; 40-45 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

BCM. 106 MICROSOFT OUTLOOK

Learn how to effectively use Microsoft Outlook for a wide range of communication and organizational tasks. Topics include sending, receiving and filing emails, organizing contacts, and scheduling appointments, events and meetings. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

BCM. 200 INTRO TO MS OFFICE SUITE

Introduction to the basic features available in the Microsoft Office Suite Applications using Word, Excel, PowerPoint and Access. Students will be prepared for learning the in-depth individual courses available in the BCM. department. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 22-24.75 TBA; 42-47.25 Homework

Recommended: BCM. 104 or equivalent

Transfer Credit: CSU

BCM. 214 WORD PROCESSING I: WORD

Using a hands-on approach, students will use a computer and word processing software to learn the theories and practical applications of the current version of Word to create, edit, format, manage and enhance documents.using customized features. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 12-13.5 TBA; 20-22.5 Homework

Recommended: Knowledge of the computer keyboard or completion of a typing class.

Transfer Credit: CSU

BCM. 215 WORD PROCESSING II: WORD

Using a hands-on approach, students will expand their word processing knowledge and skills by learning theories and practical applications of the current version of Word to focus on advanced applications such as multi-page documents, merges, tables, graphics, macros, and styles. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 16-18 TBA; 48-54 Homework

Prerequisites: BCM. 214 or equivalent.

Transfer Credit: CSU

BCM. 225 SPREADSHEETS I: EXCEL

An introduction to Microsoft Excel software which is used to build, format and print spreadsheets. Topics include the design and creation of professional-looking spreadsheets for personal use or in today's workplace. Students develop worksheets with formulas and built-in functions and present data in graphic form with charts. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 8-9 TBA; 24-27 Homework

Recommended: BCM. 104 or equivalent.

Transfer Credit: CSU

BCM. 226 SPREADSHEETS II: EXCEL

Students advance their knowledge of spreadsheets using Microsoft Excel software by learning how to design, enhance, link, and consolidate worksheets, as well as apply statistical and financial functions. Additional topics include database management, working with templates, PivotCharts, PivotTables, and macros. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 16-18 TBA; 48-54 Homework

Recommended: BCM. 225 or equivalent.

Transfer Credit: CSU

BCM. 241 MS PROJECT FUNDAMENTALS I

Introduction to project management software covering the foundation of managing projects in today's business environment. Explore how to manage project resources, organize schedules, assign tasks and resources, and produce reports to achieve project success. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU

BCM. 242 MS PROJECT FUNDAMENTALS II

Further study of project management software. Covers baselines, updating and tracking, detailed customized reports, integrating with other applications, and working

with multiple projects. Intended for students who have basic knowledge of project management software. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Recommended: BCM. 241 or equivalent.

Transfer Credit: CSU

BCM. 301 MAXIMIZING YOUR EMPLOYMENT POTENTIAL

A culminating course to assist students in compiling a professional portfolio (job related interview questions, resumes, cover and thank you letters) which can be used to obtain employment and qualify for promotions. The focus is on online job seeking strategies, employment resources, interviewing techniques, and goal setting. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 8-9 TBA; 40-45 Homework

Transfer Credit: CSU

BCM. 665 SELECTED COMPUTER TOPICS

Short course used to introduce, develop, or review business computer system topics, office management, or applications. The course will focus on a specific topic : the introduction of basic computer skills, introduction of applications packages, upgrades of software packages, office management related topics, or a particular segment of a semester-length course. *Pass/No Pass Only.*

Units: 0.5 - 2

Hours/semester: 8-36 Lecture; 4-20 TBA; 12-52 Homework

Transfer Credit: CSU

BCM. 695 INDEPENDENT STUDY IN BUSINESS COMPUTER SYSTEMS AND MANAGEMENT

Designed for students who are interested in furthering their knowledge via self-paced, individualized, directed instruction provided in selected areas to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 3

Hours/semester: 24-162 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

Career and Personal Development

See also listings under Counseling.

These courses offer students the opportunity to gain knowledge about themselves and their behavior and to develop techniques for successful educational, career and personal planning.

CRER 116 DECIDING ON A MAJOR

Designed to assist students who are undecided about their major, this course will introduce students to major & career research and decision making strategies to guide their making a decision about their college major. The connections between college majors and occupations will be explored. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5

Hours/semester: 8-9 Lecture; 16-18 Homework

Transfer Credit: CSU

CRER 137 LIFE AND CAREER PLANNING

Designed for the student who is undecided about occupational options, this course offers a comprehensive approach to life and career planning. Career assessments designed to provide increased insights into students' abilities, interests, and temperament are utilized. Students research occupational trends and specific careers clusters, demonstrate professional communication methods including resume writing, occupational portfolio, and interview techniques. Individual conferences are available to students and use of the Career Center as resources for further individual exploration. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9E1

Transfer Credit: CSU (CSU GE Area E1)

CRER 145 SOFT SKILLS FOR THE WORKPLACE

An examination of the soft skills (self-management and people skills) that are necessary for gaining entry-level

employment and succeeding in the workplace, including communication, collaboration, critical thinking/problem-solving, resume and cover letter writing. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

CRER 665 SELECTED TOPICS IN CAREER AND PERSONAL DEVELOPMENT

Discussion and exploration of various career-related topics and their application to a student's major, career development, and career exploration. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 8-36 Lecture; 16-72 Homework

Transfer Credit: CSU (CSU GE Area E1)

Chemistry

CHEM 112 CHEMISTRY IN ACTION

An introduction to chemistry and laboratory investigation for non-science majors. The course will focus on chemicals and reactions common in everyday life, medicine, industry, and in the body. Concepts relating to the nature and interactions of atoms, ions, and molecules will be presented. Students will learn how to use scientific methods to investigate questions about how chemical systems work. Students will also learn to use and evaluate information presented on product labels, in advertisement, and available through the internet. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A, 5C)

CHEM 114 SURVEY OF CHEMISTRY AND PHYSICS

A conceptual survey of physical science (physics and chemistry) intended for non-science majors at the General Education level. A general discussion of the scientific method and techniques will be followed by physics, chemistry, and integrated topics. The laboratory portion will cover a hands-on exploration of phenomena discussed in lecture. The physics component of the course will discuss motion, force, energy, electricity and magnetism, waves and light. The chemistry component of the course will focus on chemicals and reactions common in everyday life. Concepts

relating to the nature and interactions of atoms, ions, and molecules will be presented. Students will also learn to use and evaluate information presented on product labels, in advertisement, and available through the internet. Also listed as PHYS 114. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: MATH 110 or MATH 111 and MATH 112 or equivalent.

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A, 5C)

C-ID: CHEM 140; PHYS 140

CHEM 192 ELEMENTARY CHEMISTRY

An introductory course in Chemistry designed to prepare students for General Chemistry 1 (CHEM 210). Provides an introduction to fundamental concepts in chemistry with an emphasis on the application of mathematical problem-solving methods to chemistry. Lecture topics will include the basic structure of atoms, the combination of elements in chemical compounds, the metric system and measurement, significant figures, using dimensional analysis and algebra to solve chemical problems, describing chemical reactions using balanced equations, and stoichiometry. In the laboratory, the student will be introduced to the use of common laboratory equipment and techniques. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: MATH 110 or equivalent; or appropriate placement test scores and other measures as appropriate or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A, 5C)

C-ID: CHEM 101

CHEM 210 GENERAL CHEMISTRY I

The first semester of a two-semester sequence with laboratory intended for science, engineering, and pre-professional majors. It includes a detailed study of atomic and molecular structures, stoichiometric calculations, solutions, thermochemistry, gas laws, physical states, atomic electron orbital theory, and chemical bonding. The course also includes laboratory study of these concepts, experimental chemistry techniques, and the analysis and



interpretation of experimental findings. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 48-54 Lecture; 96-108 Lab; 96-108 Homework

Prerequisites: MATH 120 or MATH 123 or equivalent; or appropriate placement test score and other measures as appropriate.

Recommended: CHEM 192 or one year of high school college preparatory chemistry, or equivalent.

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A, 5C)

C-ID: CHEM 110; CHEM 120S

CHEM 220 GENERAL CHEMISTRY II

The second semester of a two-semester sequence with laboratory intended for science, engineering, and pre-professional majors. It includes a study of acid-base chemistry, equilibrium, kinetics, thermodynamics, electrochemistry, descriptive chemistry, and nuclear chemistry. The course also includes laboratory study of these concepts, experimental chemistry techniques, and the analysis and interpretation of experimental findings. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 48-54 Lecture; 96-108 Lab; 96-108 Homework

Prerequisites: CHEM 210 or equivalent.

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A, 5C)

C-ID: CHEM 120S

CHEM 234 ORGANIC CHEMISTRY I

Nomenclature, bonding, structural isomerism, stereochemistry, conformational analysis, physical properties structure, reactions and reaction mechanisms of organic compounds, with emphasis on alkanes, alkenes, alkynes, alkyl halides, alcohols, and ethers. Emphasis on reactivity, and reaction mechanisms. Infrared and nuclear magnetic resonance spectroscopy are an integral part. Chemistry 234 is the first semester in a two-semester sequence in organic chemistry. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: CHEM 220 or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B1), UC (IGETC Area 5A)

C-ID: CHEM 150

CHEM 235 ORGANIC CHEMISTRY II

Continuation of CHEM 234 with an introduction to the chemistry of aromatics, amines, carbanions, carboxylic acids, aldehydes, ketones and biochemical topics focusing on structure, synthesis, and mechanisms of reaction. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: CHEM 234 or equivalent.

Transfer Credit: CSU (CSU GE Area B1), UC (IGETC Area 5A)

C-ID: CHEM 160 S

CHEM 237 ORGANIC CHEMISTRY LAB I

Organic chemistry laboratory designed to accompany CHEM 234. Introduction of the basic techniques of synthesis, separation and purification of organic compounds. Identification of main functional groups by spectroscopic techniques also introduced. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 96-108 Lab

Prerequisites: Completion of, or concurrent enrollment in, CHEM 234 or equivalent.

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5C)

C-ID: CHEM 150

CHEM 238 ORGANIC CHEMISTRY LAB II

Organic chemistry laboratory designed to accompany CHEM 235 by emphasizing techniques for the synthesis, isolation, purification and identification of organic compounds. Qualitative analysis of unknowns by preparation of derivatives and spectroscopic methods is an integral component of the course. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 96-108 Lab

Prerequisites: CHEM 234 and CHEM 237 or equivalent; and completion of, or concurrent enrollment in,, CHEM 235 or equivalent.

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5C)

C-ID: CHEM 160 S

CHEM 410 CHEMISTRY FOR HEALTH SCIENCES

Survey of the principles of general, organic, and biochemistry. The physical and chemical properties of inorganic, organic, and biomolecules. Includes a study of equilibrium in chemical systems with special emphasis on chemical processes in the body. The laboratory component introduces qualitative and quantitative techniques of chemical study and manipulations with inorganic, organic, and biochemical reactions. Designed for Health Science majors (e.g. respiratory therapy, nursing). Not intended for students majoring in biology, chemistry, physics, engineering, or pre-professional programs such as medicine, dentistry, or pharmacy. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: MATH 110 or appropriate placement test scores and other measures as appropriate, or equivalent.

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU (CSU GE Area B1, B3)

Chinese

Language Lab and Listening Requirement: Students enrolled in foreign language courses are required to make use of the language lab as prescribed by each department. Imitation, response, and independent practice are integral features of the study of a foreign language at the College.

CHIN 111 ELEMENTARY CHINESE I

The first course of a basic two-course sequence covering the same course materials as a university-level first semester Mandarin Chinese course. Students will acquire the ability to understand, speak, read, and write elementary Mandarin Chinese and will learn about the customs, culture and history of the Chinese world. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC

CHIN 112 ELEMENTARY CHINESE II

Second course of a basic two-course sequence covering the same course materials as a university-level first semester Mandarin Chinese course. Students will further their ability to understand, speak, read, and write elementary Mandarin Chinese and their knowledge of the customs, culture and

history of the Chinese world. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: CHIN 111 or equivalent.

Transfer Credit: CSU (CSU GE Area C2), UC

CHIN 121 ADVANCED ELEMENTARY CHINESE I

Continuing development of students' communicative competence through the study of grammar, acquisition of new vocabulary, and practice of the four language skills: listening, speaking, reading, and writing. Content-appropriate social and cultural information will be presented to promote the students' understanding of the Mandarin Chinese-speaking world. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: CHIN 112 or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC

CHIN 122 ADVANCED ELEMENTARY CHINESE II

The continued development of students' communicative competence through the study of grammar, acquisition of new vocabulary, and practice of the four language skills: listening, speaking, reading, and writing. Content-appropriate social and cultural information will be presented to promote the students' understanding of the Mandarin Chinese-speaking world. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: CHIN 121 or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

Communication Studies

COMM 110 PUBLIC SPEAKING

Study and practice in the basic principles of effective public oral communication. Students will research, prepare and extemporaneously deliver various speeches. Analysis and evaluation of oral, public communication is also included. Relevant social issues may be examined. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*



Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9A1, 9A3

Transfer Credit: CSU (CSU GE Area A1), UC (IGETC Area 1C)

C-ID: COMM 110

COMM 127 ARGUMENTATION AND DEBATE

Principles and techniques of argumentation and debate. Research in significant social problems. Analysis of propositions, issues, evidence and reasoning. Training and experience in the presentation and evaluation of oral and written arguments. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9A1, 9A3

Transfer Credit: CSU (CSU GE Area A1), UC (IGETC Area 1C)

C-ID: COMM 120

COMM 130 INTERPERSONAL COMMUNICATION

Study and practice of interpersonal relationships. Analysis of the verbal and non-verbal modes of communication. Investigation of communication conflicts in interpersonal relationships and methods of conflict resolution. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9A1, 9A3

Transfer Credit: CSU (CSU GE Area A1), UC (IGETC Area 1C)

C-ID: COMM 130

COMM 140 SMALL GROUP COMMUNICATION

Understanding of the principles of group interaction and decision making, including study of leadership, types of authority, teamwork, and conflict resolution. Participation in discussion groups to share information, to solve problems, and to reach consensus. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9A1

Transfer Credit: CSU (CSU GE Area A1), UC (IGETC Area 1C)

C-ID: COMM 140

COMM 150 INTERCULTURAL COMMUNICATION

Designed for students from all cultural backgrounds. Study of basic theory and skills of intercultural communication using round table discussion, public speaking and critical analysis. Emphasis is given to empathy building for communicating effectively in a diverse social and professional environment. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9A1, 9A3

Transfer Credit: CSU (CSU GE Area A1), UC

C-ID: COMM 150

COMM 160 GENDER AND COMMUNICATION

Study of the relationships between gender and communication in multiple sociocultural contexts. Analysis of the intersectional relationships between gender and identity, culture, perception, power, media, history, language, and nonverbal communication from social science, interpretive, and critical theoretical approaches. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4)

COMM B10 HEALTH COMMUNICATION

Students will develop an understanding of how health communication concepts, theories, research methods, cases and other practices are applied in addressing real-world health issues, its administration and decision-making. Students will study health communication approaches and action areas as well as plan, implement and evaluate health promotion and behavior change campaigns. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Admission to the Bachelor of Science in Respiratory Care Program; and COMM 130 or COMM 150 or equivalent.

Computer Science

See also listings under Business Computer Systems and Management and Network Engineering Technologies.

COMP 155 COMPUTER PROGRAMMING VISUAL BASIC

An introduction to computer programming using the high level language VISUAL BASIC. The course covers terminology and syntax, event-driven and object-oriented programming, how to solve problems starting with descriptions of the problem in English and translating the description into Visual Basic. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 110 or equivalent.

Transfer Credit: CSU, UC

COMP 250 INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING: C++

Introduction to programming and software engineering for computer science and engineering majors and computer professionals. A systematic approach to the design, implementation, and management of robust C++ computer programs. Course emphasizes Object-Oriented programming design, programming documentation, testing and debugging techniques. This course conforms to the ACM CS1 standards. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 222 or equivalent.

Recommended: Some previous programming experience or coursework.

Transfer Credit: CSU, UC

C-ID: COMP 122, ENGR 120

COMP 251 INTRODUCTION TO MICROCONTROLLERS WITH C/C++

Introduction to computer programming concepts and methodologies in C/C++ using microcontrollers to program computer circuits and hardware. Covers a microcontroller such as the Atmel AVR or Arduino single-board computer and circuits like LED displays and servo motor controllers. Teaches algorithms, data types, memory

usages and management, files and streams, hardware interfaces, sensors, motors, basic control techniques, and microcontroller peripherals including timers, analog-to-digital conversion, interrupts, and serial communication. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Completion of, or concurrent enrollment in,, COMP 250 or equivalent.

Transfer Credit: CSU

C-ID: ENGR 120

COMP 252 DATA STRUCTURES: C++

Design and implementation of larger projects using object-oriented software engineering principles with emphasis on definition and use of data structures including: arrays, stacks, queues, linked lists, trees, hash tables, dictionaries, sets and graphs. Standard methods are used for sorting, searching and analyzing the relative efficiency of algorithms (Big-O notation). This course conforms to the ACM CS2 standards. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: COMP 250 or equivalent.

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU, UC

C-ID: COMP 132

COMP 256 COMPUTER ARCHITECTURE AND ASSEMBLY LANGUAGE

Covers the basics of Integrated Circuit technology, digital logic gates and circuit design, computer organization and ISA standard computer architecture, microcode, number systems and data representation, machine languages, Assembly languages and programming, memory systems, addressing, Operating Systems, interrupt/exception handling, input/output processing, and the connection between high-level language, assembly language, and machine operation on a microprocessor system. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: COMP 250 or equivalent.

Transfer Credit: CSU, UC

C-ID: COMP 142



COMP 262 DISCRETE MATHEMATICS FOR COMPUTER SCIENCE

Covers the fundamental mathematical elements of computer science including mathematical logic, sets, functions and relations, generating functions, combinatorics, methods of mathematical proof, basic number theory, algorithms, graphs, and trees. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 251 and COMP 250 or COMP 284 or equivalent.

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9A3

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

C-ID: COMP 152

COMP 284 INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING: JAVA

Introduction to object-oriented computer programming for computer science majors and computer professionals. Emphasizes object-oriented design, good software engineering principles and developing fundamental programming skills in Java. This course conforms to the ACM CS1 standards. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Completion of MATH 120, or MATH 122 and MATH 123, with a grade of C or better, or equivalent. Eligibility for ENGL 100 or ENGL 105, or equivalent. COMP 118 or equivalent

Transfer Credit: CSU, UC

C-ID: COMP 122

COMP 286 DATA STRUCTURES: JAVA

Abstract data type implementation and usage techniques for computer science majors and computer professionals. Object-oriented approach to a variety of abstract data types including: lists, stacks, queues, priority queues, trees, maps and graphs. Also includes advanced sorting and searching topics, and algorithmic analysis using Big-O notation. This course conforms to the ACM CS2 standards. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: COMP 284 or equivalent

Transfer Credit: CSU, UC

C-ID: COMP 132

COMP 665 SELECTED TOPICS IN COMPUTER SCIENCE

This course explores selected contemporary topics or themes in Computer Science. Example topics include new programming languages, operating systems, net-centric computing, problem-solving and program design methodologies, software engineering processes, graphical user-interface design, information management, and contemporary issues in Computer Science. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 0.5 - 2

Hours/semester: 8-32 Lecture; 16-64 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of MATH 120, or MATH 122 and MATH 123, with a grade of C or better, or equivalent.

Transfer Credit: CSU

COMP 695 INDEPENDENT STUDY IN COMPUTER SCIENCE

Designed for students who are interested in furthering their knowledge via self-paced, individualized, directed instruction provided in selected areas to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

Cooperative Education

Repeatability of Cooperative Education, Title 5 Reference — §55040(b) (6) and 55253

Students may enroll in Occupational Work Experience (Cooperative Education 670) up to a total of 16 units of credit (no more than 8 units in a given term).

COOP 670 VOCATIONAL COOPERATIVE EDUCATION

Students may receive credit for work experience related to their major field or to their established career goal. Seminars and individual conferences are scheduled at convenient times during the semester for the instructor and the student to establish learning objectives related to the student's employment. Students are given appropriate assignments related to the stated objectives and graded in accordance with the college's established grading system. As an alternative, related instruction classes meeting one hour per week, usually in the evening, are available for those students who prefer or need a more structured learning process. One unit of credit for each 75 hours worked per semester, with a maximum of four units per semester, may be earned by students with jobs related to their academic or occupational majors or goals. May be repeated for credit up to 16 units. This limitation applies to Occupational Cooperative Education work experience courses offered within the SMCCCD. *Pass/No Pass Only.*

Units: 1 - 4

Hours/semester: 75-300 Work Experience

Prerequisites: Permission of the Cooperative Education Office, concurrent enrollment in a planned vocational program, and employment in a college-approved job directly related to the student's academic major.

Transfer Credit: CSU

COOP 671 GENERAL COOPERATIVE EDUCATION

Designed for the student who does not have a job that relates to a specific occupational goal or college major. Under the direction of the Cooperative Education Coordinator, students focus on career awareness and the development of desirable employment habits, skills and attitudes. Each student must establish measurable learning objectives appropriate for his/her job. Students may be eligible for up to three units of credit per semester, and the course may be repeated for a maximum of six units of credit. One unit of credit may be earned for each 75 hours of paid work (approximately five hours per week) or 60 hours of volunteer work per semester. Students must be enrolled in a minimum of seven units (including the Cooperative Education course) to earn Cooperative Education credit. *Pass/No Pass Only.*

Units: 1 - 3

Hours/semester: 60-225 Work Experience

Transfer Credit: CSU

Cosmetology

See also listings under Wellness.

COSM 665 SELECTED TOPICS IN COSMETOLOGY

Selected short course topics designed for Cosmetology, Esthetician, and Spa professionals who are interested in increasing or developing new skills, for the person who is interested in acquiring knowledge or skills related to self enhancement, and for those interested in exploring career opportunities in the Cosmeology, Esthetician, or Spa fields. *Pass/No Pass Only. Degree Credit.*

Units: 0.5 - 2

Hours/semester: 8-36 Lecture; 16-72 Homework

COSM 670 VOCATIONAL COOPERATIVE EDUCATION IN COSMETOLOGY

Students may receive credit for work experience related to their major field or to their established career goal. Seminars and individual conferences are scheduled at convenient times during the semester for the instructor and the student to establish learning objectives related to the student's employment. Students are given appropriate assignments related to the stated objectives and graded in accordance with the college's established grading system. As an alternative, related instruction classes meeting one hour per week, usually in the evening, are available for those students who prefer or need a more structured learning process. One unit of credit for each 75 hours worked per semester, with a maximum of four units per semester, may be earned by students with jobs related to their academic or occupational majors or goals. May be repeated for credit up to 16 units. This limitation applies to Occupational Cooperative Education work experience courses offered within the SMCCCD. *Pass/No Pass Only.*

Units: 1

Hours/semester: 75 Work Experience

Prerequisites: Permission of the Cooperative Education Office, concurrent enrollment in a planned vocational program, and employment in a college-approved job directly related to the student's academic major.

Transfer Credit: CSU

COSM 695 INDEPENDENT STUDY IN COSMETOLOGY

Designed for students who are interested in furthering their knowledge via self-paced, individualized, directed instruction provided in selected areas to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given

discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 3

Hours/semester: 24-162 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

COSM 701 COSMETOLOGY CORE CONCEPTS

One of three courses in the first semester of the Cosmetology sequence. Topics include history and career opportunities, life skills, professional image, communicating for success, infection control, skin care, nail care, basic makeup, and basic hairstyling. Students will work towards California Board of Barbering and Cosmetology minimum practical operations in subjects learned. *Letter Grade Only. Degree Credit.*

Units: 6

Hours/semester: 32-36 Lecture; 192-216 Lab; 64-72 Homework

Prerequisites: Admission to the Cosmetology Program by special application.

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

COSM 702 COSMETOLOGY HAIR DESIGN CONCEPTS

One of three courses in the first semester of the Cosmetology sequence. Topics include properties of hair and scalp, scalp care and conditioning, principles of hair design, men's and women's haircutting, and basic styling techniques. Students will work towards California Board of Barbering and Cosmetology minimum practical operations in subjects learned. *Letter Grade Only. Degree Credit.*

Units: 6

Hours/semester: 32-36 Lecture; 192-216 Lab; 64-72 Homework

Prerequisites: Admission to the Cosmetology Program by special application.

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

COSM 703 COSMETOLOGY CHEMICAL CONCEPTS

One of three courses in the first semester of the Cosmetology sequence. Topics include basics of chemistry, chemical texture services, and hair color basics. Students will work towards California Board of Barbering and Cosmetology minimum practical operations in subjects learned. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 16-18 Lecture; 96-108 Lab; 32-36 Homework

Prerequisites: Admission to the Cosmetology Program by special application.

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

COSM 704 COSMETOLOGY INTERMEDIATE CONCEPTS

One of two courses in the second semester of the Cosmetology sequence. Topics include advanced skin care, advanced nail care, hair removal, advanced hair color, and advanced hair cutting. Students will continue working towards California Board of Barbering and Cosmetology minimum practical operations in subjects learned. *Letter Grade Only. Degree Credit.*

Units: 6

Hours/semester: 32-36 Lecture; 192-216 Lab; 64-72 Homework

Prerequisites: COSM 701 and COSM 702 and COSM 703 or equivalent

COSM 705 COSMETOLOGY BUSINESS AND SALON EXPERIENCE

One of two courses in the second semester of the Cosmetology sequence. Topics include business fundamentals and offering of salon services to clientele. Students will continue working towards California Board of Barbering and Cosmetology minimum practical operations in subjects learned. *Letter Grade Only. Degree Credit.*

Units: 9

Hours/semester: 48-54 Lecture; 288-324 Lab; 96-108 Homework

Prerequisites: COSM 701 and COSM 702 and COSM 703 or equivalent.

COSM 706 COSMETOLOGY ADVANCED CONCEPTS

One of two courses in the third semester of the Cosmetology sequence. Topics include wigs and hair additions, electricity, braiding and extensions, skin and nails anatomy and physiology, advanced hair color and advanced hair cutting, providing of services to salon clientele. Students will continue working towards California Board of Barbering and Cosmetology minimum practical operations in subjects learned. *Letter Grade Only. Degree Credit.*

Units: 6

Hours/semester: 32-36 Lecture; 192-216 Lab; 64-72 Homework

Prerequisites: COSM 704 and COSM 705 or equivalent

COSM 707 COSMETOLOGY SALON AND LICENSURE PREP

One of two courses in the third semester of the Cosmetology sequence. Topics include preparing for licensure and employment, on the job, the salon business, and state board exam preparation. Students will continue working towards California Board of Barbering and Cosmetology minimum practical operations in subjects learned. *Letter Grade Only. Degree Credit.*

Units: 6

Hours/semester: 32-36 Lecture; 192-216 Lab; 64-72 Homework

Prerequisites: COSM 704 and COSM 705 or equivalent.

COSM 717 ADVANCED MAKEUP

Designed for students interested in make-up artistry and continuing cosmetology program students. Fundamental and advanced skills involved with becoming an entry level make-up artist including high fashion make-up skills, special event make-up, corrective make-up, editorial make-up, and career exploration. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

COSM 737 ADVANCED NATURAL HAIRCARE AND BRAIDING

Designed for students that have completed or are currently enrolled in the Cosmetology program. Advancement of natural hair care skills as well as discussion of career opportunities in natural hair care. Topics covered include: history of natural hairstyling, disinfection and sanitation, hair types, basic anatomy, and natural hair and braid sculpting techniques. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

Prerequisites: Acceptance by special application into the Cosmetology program and/or completion of a Cosmetology program.

COSM 747 ADVANCED SKIN CARE AND HAIR REMOVAL

Designed for current and former students of the Esthetics program and State of California licensed estheticians. Focuses on the advancement of esthetics procedures. Topics covered include: chemical and mechanical peels, electrical modalities, body waxing, and speed waxing. Also, introduces medical esthetics and explore career opportunities in that field. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 16-18 Lecture; 48-54 Lab; 32-36 Homework

Prerequisites: COSM 775 or equivalent.

COSM 767 EYELASH ENHANCEMENTS

Designed for students enrolled or graduated from the cosmetology or esthetician program and/or licensed cosmetologists and estheticians. Introductory skills for creating semi permanent eyelash enhancements. Will include types of eyelash extensions, eyelash perms, eyelash tinting, and techniques for application, client services, and career exploration. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

Prerequisites: COSM 701 or COSM 775 or possession of a State of California Cosmetologist or Esthetician license.

COSM 775 ESTHETICIAN I

The first of a two-course sequence designed to provide students with basic knowledge and skill development in skin care techniques, make-up application, and hair removal to qualify for the Esthetician examination at the California State Board of Cosmetology. Upon successful completion of both COSM 775 and COSM 776 (a minimum of 600 hours), the student will be eligible to apply for the Esthetician examination at the California State Board of Cosmetology. *Letter Grade Only. Degree Credit.*

Units: 12

Hours/semester: 112-126 Lecture; 240-270 Lab; 224-252 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.



COSM 776 ESTHETICIAN II

The second of two courses in which students elaborate on previously learned skills and knowledge in skin care techniques, hair removal, and makeup application. Course includes lab time where students will integrate massage and skin care on clients. Upon successful completion of COSM 775 and COSM 776 (a total of 600 hours), the student will be eligible for a Certificate of Achievement from Skyline College and will be able to apply for the Esthetician examination at the California State Board of Cosmetology for licensure. *Letter Grade Only. Degree Credit.*

Units: 12

Hours/semester: 112-126 Lecture; 240-270 Lab; 224-252 Homework

Prerequisites: COSM 775 or equivalent.

Counseling

See also listings under Career and Personal Development.

COUN 100 COLLEGE SUCCESS

Provides understanding of the concepts and significance of factors that contribute to college success. The course focuses on the following topics: understanding of the college/university systems; goal setting; educational planning; health maintenance; stress management; learning styles; study skills; resources, relationships and cultural diversity. Integrates personal growth; academic and career success; problem solving and critical/creative thinking. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture

AA/AS Degree Requirements: Area 9E1

Transfer Credit: CSU (CSU GE Area E1), UC

COUN 101 PREP FOR COLLEGE

An introductory overview of the higher education system and major and/or career exploration process as it relates to developing educational goals. Students will learn about Skyline College's educational programs and services, academic survival skills and awareness of personal development, as well as additional tools and information for successful navigation through Skyline College. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 1

Hours/semester: 8-18 Lecture; 16-36 Homework

Transfer Credit: CSU

COUN 102 STUDENT SUCCESS STRATEGIES

Designed to help students explore and understand issues that determine their academic success. Students will learn about strategies to help them succeed in college. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5

Hours/semester: 8-9 Lecture; 16-18 Homework

Transfer Credit: CSU

COUN 104 UNDERSTANDING TRANSFER

A comprehensive study of the university transfer process as it relates to community college students. Topics include an overview of higher education systems, transfer admissions requirements, college research, transfer resources, the college application process, transfer to four-year colleges and universities. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

COUN 640 MONEY MANAGEMENT FOR ACADEMIC SUCCESS

An introduction to the basics of personal money management principles as they relate to budgeting, savings, credit establishment, credit improvement and debt reduction. Students will gain tools to implement and practice positive financial behaviors and explore how their own personal relationship with finances directly relates to academic and career success. A focus on goal setting strategies will be emphasized and personal, academic, and financial goals will be explored. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Transfer Credit: CSU

COUN 650.1 KAPATIRAN SEMINAR - COLLEGE SUCCESS FACTORS

Designed to help students to understand and deal with their personal, social, and cross-cultural concerns and the relationship of cultural experiences and educational success. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Transfer Credit: CSU

COUN 650.2 KAPATIRAN SEMINAR - TRANSITION TO COLLEGE

Exploration of attitudes toward learning and college in the context of the Filipino American experience. Designed to facilitate the transition from high school to college while taking into account Filipino American community issues. Includes understanding of the college/university systems, college resources, and developing key student skills such as time management, self-esteem, goal setting, emotional intelligence, and relationship building. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Transfer Credit: CSU

COUN 651 PUENTE SEMINAR

Transfer seminar designed to assist students in exploring and understanding academic, career, personal, and cross-cultural topics and issues that influence their educational success. An emphasis is placed on major and career exploration as well as preparation on the transfer process from community college to 4-year institutions. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Transfer Credit: CSU

COUN 652 HONORS SEMINAR - APPLYING TO COMPETITIVE UNIVERSITIES

Preparation for transfer to competitive colleges and universities. Topics will include understanding the transfer process, financial aid and scholarships, completing the UC and Common Application and writing your personal statement. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5

Hours/semester: 8-9 Lecture; 16-18 Homework

Transfer Credit: CSU

COUN 655.1 HERMANOS AND HERMANAS SEMINAR - COLLEGE SUCCESS FACTORS

An overview of the concepts and significance of factors that contribute to success in education. Factors to be explored include social awareness, cultural identity, motivation leadership, and goal setting. Designed to help students explore their understanding of personal, social, and cross-cultural differences, as well as analyze the relationship between cultural experiences and educational success. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Transfer Credit: CSU

COUN 655.2 HERMANOS AND HERMANAS SEMINAR - TRANSITION TO COLLEGE

Course explores student's attitudes toward learning and college. Designed to facilitate the transition from high school to college. Focus on understanding the college/university systems, college resources, and developing key student skills such as time management, self-esteem, and goal setting. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Transfer Credit: CSU

COUN 656.1 HERMANAS SEMINAR - COLLEGE SUCCESS FACTORS

This course is designed to help students in understanding and dealing with their personal, social, professional, and cross-cultural concerns in relation to personal development. Additionally, this course will focus on the lives and experiences of Latinas in the United States and abroad. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

COUN 656.2 HERMANAS SEMINAR - TRANSITION TO COLLEGE

This course is designed to help students in understanding and dealing with their personal, social, professional, and cross-cultural concerns in relations to personal development. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Transfer Credit: CSU

COUN 657 AUTO GUIDANCE SEMINAR - CAREER ADVANCEMENT ACADEMY

Designed to assist Career Advancement Academy Automotive students in exploring and understanding academic, career, personal, and cross-cultural topics and issues that influence their education experiences. Topics covered include college success, campus resources, resume

writing and interview skills. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

COUN 658 ALLIED HEALTH SEMINAR - CAREER ADVANCEMENT ACADEMY

Designed to help students explore and understand academic, career, personal, and cross-cultural topics and issues that influence their educational experiences. Topics covered include college success, campus resources, resume writing and interview skills for Allied Health Professions. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

COUN B10 MULTICULTURAL HUMAN RELATIONS

Designed to engage students in an evolving process of developing greater self and cultural awareness that will help inform how we work with communities specific to various professional settings. Examination of various intersectionalities such as ethnicity, gender, class, sexual orientation, and generational identity and the effects that the dynamics of power and privilege have on systemic oppression. Also utilizes a psychosocial perspective to explore various theoretical frameworks that strive for greater cultural competency throughout their professional development. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Admission to the Bachelor of Science in Respiratory Care Program; and PSYC 100 or equivalent.

Developmental Learning Skills

DSKL 817 ASSISTIVE COMPUTER ACCESS

Designed primarily for students with disabilities, this course provides training in the use of computer access technologies which enhance a student's ability to access and use microcomputers. Students will use the technology as a tool to complete assignments from concurrent subject area classes. No previous computer experience is required. Touch typing familiarity recommended. (Open entry.) (Units do not count toward the Associate Degree.) *Pass/No Pass Only.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Recommended: Familiarity with the keyboard.

DSKL 820 COMPUTER-BASED COGNITIVE RETRAINING

Designed primarily for students recovering from an acquired brain injury/impairment such as head trauma or stroke, this course uses computer-based applications to provide cognitive retraining. Areas addressed include the application of memory, problem-solving, critical thinking, logic, and organizational skills to daily activities and functioning. No previous computer experience is required. *Pass/No Pass Only. Degree Credit.*

Units: 0.5

Hours/semester: 24-27 Lab

DSKL 821 DEVELOPMENT OF SELF-ADVOCACY SKILLS: PERSONAL EMPOWERMENT FOR STUDENTS WITH DISABILITIES

Two lecture hours per week over four weeks for a total of eight lecture hours. Exploration of self-advocacy strategies for students eligible for ADA academic accommodations. Prepares students to advocate effectively for implementation of accommodations requests both inside and outside the classroom. Includes introduction to development of informational, intra/interpersonal skills, neurology of learning/differences, rights and responsibilities, procedures and related issues. Students will participate in small group activities including role-play. (Units do not count toward the Associate Degree.) *Pass/No Pass Only. Degree Credit.*

Units: 0.5

Hours/semester: 8-9 Lecture; 16-18 Homework

DSKL 822 STUDY SMART SKILLS

Strategies to improve mathematics, reading, writing, study, and test-taking skills for students with learning differences. Applicable study techniques using triple strength learning: seeing, saying, and writing. Hands-on activities and group work. (Units do not count toward the Associate Degree) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

DSKL 823 FUNDAMENTAL SKILLS: WRITING I

Students will learn to write grammatically correct sentences using rules of grammar and punctuation. Sentence

composition, sentence patterns and sentence variety will be practiced through weekly writing assignments. This course is appropriate for students who need to develop skills necessary for English 828 and/or those who have scored into "See Counselor" on the English Placement testing. (Units do not count toward the Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

DSKL 824 FUNDAMENTAL SKILLS AND STRATEGIES FOR WRITING II

Designed for students who have learning differences and who have completed DSKL 823. Students will continue learning additional rules of grammar, punctuation, and MLA formatting. This course is appropriate for students seeking to improve writing skills. (Units do not count toward the Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: DSKL 823

DSKL 825.1 ASSISTIVE COMPUTER TECHNOLOGY - KURZWEIL 3000 I

Designed primarily for students with disabilities; provides training in the use of the text-to-speech program, Kurzweil 3000, which supports students' learning styles and/or physical needs in the area of reading and studying their textbooks. Students will learn how to use this assistive technology tool as an accommodation for reading and studying electronic versions of their textbooks and completing tests/exams from concurrent subject area classes. No previous computer experience is required. (Units do not count toward the Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 0.5

Hours/semester: 8-9 Lecture; 16-18 Homework

DSKL 826.1 ASSISTIVE COMPUTER TECHNOLOGY - DRAGON NATURALLYSPEAKING I

Designed primarily for students with disabilities; provides training in the use of the speech recognition program, Dragon NaturallySpeaking, which supports students' learning styles and/or physical needs in the area of written expression. Students will learn how to use this assistive technology tool as an accommodation for completing written assignments and essay-based tests/exams from concurrent subject area classes. No previous computer

experience is required. (Units do not count toward the Associate Degree.) *Pass/No Pass Only.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

DSKL 827 ASSISTIVE COMPUTER TECHNOLOGY: SMARTPEN

Designed primarily for students with disabilities. This course provides in-depth instruction about the various features of the Smartpen and ways to apply notetaking strategies when using the Smartpen. Students will also learn how to transfer recorded notes from the Smartpen to the computer-based software and how to review and organize notes in this software. NOTE: Students who are registered with the Disability Resource Center (DRC) and have the Smartpen as an accommodation will have access to a one-month loan of a Smartpen. All other students will need to provide their own Smartpen. (Units do not count toward the Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 0.5

Hours/semester: 8-9 Lecture; 16-18 Homework

DSKL 828 TECHNOLOGY TOOLS FOR WRITING

Designed primarily for students with disabilities; guides students through a process to assist them in determining which form of writing (i.e., pencil and paper, keyboarding, or speech recognition) best supports their written expression. Students will learn how to use a range of assistive technologies for writing, such as speech-to-text software, spelling and grammar helpers, word prediction tools, and mind mapping applications. They will also learn strategies for integrating the use of these assistive technologies into the writing process. (Units do not count toward the Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

DSKL 830 INTRODUCTION TO ASSISTIVE COMPUTER TECHNOLOGY

Students with disabilities who have little or no experience with PCs will learn the basic computing skills needed to use assistive computer technology. These skills include using the Microsoft Windows operating system and software applications. The course includes using Web browsers and online applications. (Units do not count toward the Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*



Units: 1**Hours/semester:** 16-18 Lecture; 32-36 Homework**DSKL 831 TECHNOLOGY TOOLS FOR READING**

Students with reading challenges will learn how to improve their reading comprehension by using text-to-speech applications and reading strategies. Students will also learn how to access free books online. (Units do not count toward the Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 1**Hours/semester:** 16-18 Lecture; 32-36 Homework**DSKL 832 TECHNOLOGY TOOLS FOR NOTE TAKING**

Students will learn how to use assistive computer technologies that can help them take effective notes during lectures and when conducting research. They will also learn strategies for note taking and organization. (Units do not count toward the Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 1**Hours/semester:** 16-18 Lecture; 32-36 Homework**DSKL 840 SUCCESS STRATEGIES FOR MATH**

Students will explore their own math self-concept and individual learning styles and how these concepts impact success in math. Emphasis on reduction of cognitive load and strategies for language expression, memory, reasoning, and processing speed as they relate to math. (Units do not count toward the Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 1**Hours/semester:** 16-18 Lecture; 32-36 Homework**Digital Media and Design**

See also listings under Art.

DMAD 431 DIGITAL IMAGING I: PHOTOSHOP

Focus on the creation and editing of digital images for use in art and design with Adobe Photoshop. Also listed as ART 431. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3**Hours/semester:** 32-36 Lecture; 48-54 Lab; 32-36 TBA; 32-36 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. ART 430 or equivalent.

Transfer Credit: CSU, UC**DMAD 432 DIGITAL IMAGING II: ADVANCED PHOTOSHOP**

This project-based course will expand on the tools and techniques necessary to further explore the image making process using raster based software such as Adobe Photoshop. Students develop strategies for content development, visual cohesiveness, and graphic production techniques. Topics include design, layout, typography, color principles, and project preparation for print, web, and animation. Also listed as ART 432. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3**Hours/semester:** 32-36 Lecture; 48-54 Lab; 32-36 TBA; 32-36 Homework**Prerequisites:** ART 431 or DMAD 431 or equivalent.**Transfer Credit:** CSU**DMAD 475 DIGITAL FILMMAKING I**

Concentration on production techniques used in movies, television, documentaries, music videos, and commercials. This hands-on class includes digital camcorder (or DSLR) operation, basic composition, camera movement, and use of natural lighting. Other topics include on-location audio recording, composition aesthetics, digital video fundamentals, editing, and career options. Also listed as ART 475. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3**Hours/semester:** 32-36 Lecture; 48-54 Lab; 32-36 TBA; 32-36 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU**DMAD 476 DIGITAL FILMMAKING II**

This intermediate hands-on production class will cover the various film crew positions including director, cinematographer, boom operator, audio engineer, production assistant, and script supervisor. Students will gain experience in working together in a film crew to produce various digital filmmaking projects. Other topics include single camera production, multiple camera production, and artificial lighting techniques. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 32-36 TBA; 32-36 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. DMAD 475 or equivalent experience.

Transfer Credit: CSU

DMAD 477 DIGITAL FILMMAKING III

This advanced hands-on production class will concentrate on writing, directing, and teamwork. Students will work together with actors and produce several short films in class. Other topics include basic original screenwriting, pre-production, and advanced editing. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 32-36 TBA; 32-36 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. DMAD 475 or equivalent experience; and DMAD 476 or equivalent experience;

Transfer Credit: CSU

DMAD 478 AUDIO FOR DIGITAL FILMMAKING

Audio production techniques in the digital filmmaking process. Hands-on production begins with basic audio principles and digital audio fundamentals including sound characteristics, sampling rates, bit depth, codecs, and file types. Other topics include location recording, editing, and mixing. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 32-36 TBA; 32-36 Homework

Recommended: DMAD 475, DMAD 476 and DMAD 477 or equivalent experience.

Transfer Credit: CSU

Drama

DRAM 200 THEORY OF ACTING I

Develop beginning level performance skills through emotional and sense memory techniques; physical exercises designed to increase body awareness, authentic expression, and control; and vocal exercises focusing on articulation, projection, and creative expression. Acquire confidence, range, and subtlety through improvisation, monologue, and scene work. Gain insight and inspiration through text-based critical analysis. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU, UC

C-ID: THTR 151

DRAM 201 ADVANCED ACTING I

Continuing development of performance skills/knowledge through methods and techniques explored in DRAM 200. Employment of more complex physical, psychological and emotionally challenging monologues and scenes involving both classical and contemporary text, and short plays. Deepening of emotional authenticity and refinement of creative expression as an ensemble player. Use of advanced text-based critical analysis for the building of ensemble work. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: DRAM 200 or equivalent.

Transfer Credit: CSU, UC

C-ID: THTR 152

DRAM 202 ADVANCED ACTING II

Exploration of the actor's place in the context of the play including use of symbolism and historical/social concepts that shape the actor's approach in creating truthful character-centered performances. Continued exploration of theories and techniques used in the interpretation of Drama through character analysis, monologues and scenes. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: DRAM 201 or equivalent.

Transfer Credit: CSU

DRAM 208 ACTING PRACTICUM I (ACTING LABORATORY)

Supervised rehearsals of improvisations, monologue/oral readings and short scenes. Forms and styles of acting at a beginning level. Exercises in the use of mind, emotions, voice, and body in acting. Acting scenes for drama classes and others. Emphasis upon coaching by the instructor and the students preparing of scenes for performance. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 96-108 Lab



Prerequisites: Completion of, or concurrent enrollment in, DRAM 200 or equivalent.

Transfer Credit: CSU, UC

DRAM 209 ACTING PRACTICUM II (ACTING LABORATORY)

An intermediate level class, students will build upon the skills attained in DRAM 208. Supervised rehearsals of improvisations, monologues and scenes. Exercises in the use of mind, emotions, voice, and body in acting. Acting scenes for drama classes and the public. Emphasis upon coaching by the instructor and student preparation of scenes for performance. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 96-108 Lab

Prerequisites: Completion of, or concurrent enrollment in DRAM 201 or equivalent.

Transfer Credit: CSU

DRAM 311 THEATRICAL SOUND/AUDIO PRODUCTION

Designed to teach the basic principles, history, and practice of Stagecraft in the discipline of Sound/Audio Production for the performing arts and help students acquire a general understanding of the functional process behind the production and development of live performances. This course requires evening and weekend work on actual productions. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 16-18 Lecture; 96-108 Lab; 32-36 Homework

Transfer Credit: CSU

DRAM 312 THEATRICAL LIGHTING/BASIC ELECTRICAL THEORY

Designed to teach the basic principles, history, and practice of Stagecraft in the discipline of Theatrical Lighting/Basic Electrical Theory for the performing arts with emphasis on equipment, control, color and their relationship to design. This course will help students acquire a general understanding of the functional process behind the production and development of live performances. This course requires evening and weekend work on actual productions. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 16-18 Lecture; 96-108 Lab; 32-36 Homework

Transfer Credit: CSU

C-ID: THTR 173

DRAM 313 STAGE CARPENTRY AND RIGGING

Designed to teach the basic principles, history, and practice of Stagecraft in the discipline of Stage Carpentry and Rigging for the performing arts and help students acquire a general understanding of the functional process behind the production and development of live performances. This course requires evening and weekend work on actual productions. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 16-18 Lecture; 96-108 Lab; 32-36 Homework

Transfer Credit: CSU

Education/Child Development

See also listings under Education.

ECE. 191 CHILDREN'S LITERATURE

An overview of the body of world literature deemed appropriate and enriching for children from infancy to adolescence. The course is designed to impart knowledge about and practice in storytelling techniques, as well as practical experience in presenting age-appropriate literature to children and youth. Theory and practice in discerning literary genres, criteria for selection, and techniques for using classic and contemporary literature with young people. Also listed as LIT. 191. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2)

ECE. 201 CHILD DEVELOPMENT

This course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. Also listed as PSYC 201. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9D3, 9E1

Transfer Credit: CSU (CSU GE Area E1D), UC (IGETC Area 4)

C-ID: CDEV 100

ECE. 210 EARLY CHILDHOOD EDUCATION PRINCIPLES

Catalog Description: An examination of the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all children. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

C-ID: ECE 120

ECE. 211 EARLY CHILDHOOD EDUCATION CURRICULUM

This course presents an overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age 8. Students will examine a teacher's role in supporting development and fostering the joy of learning for all young children using observation and assessment strategies emphasizing the essential role of play. An overview of content areas will include but not be limited to: Language and literacy, social and emotional learning, sensory learning, art and creativity, math and science. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

C-ID: ECE 130

ECE. 212 CHILD, FAMILY & COMMUNITY

An examination of the developing child in a societal context focusing on the interrelationship of family, school and community and emphasizes historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC

C-ID: CDEV 110

ECE. 213 THE SCHOOL-AGE CHILD

The focus of this course is relevant and responsible program planning for before-and after-school child care. Also presented are the developmental needs of the child 6- to 12-years of age (middle childhood), family involvement and implications, and available community resources for systematic out-of-school care for elementary-aged children. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

ECE. 223 INFANT/TODDLER DEVELOPMENT

An introduction to the development of children from birth to three years with an emphasis on social, emotional and physical milestones, early learning and brain development, atypical development, temperament, child behavior, and behavior issues related to varied impairments, and the importance of family partnerships. It covers trends in early care and education, the variances of child abilities between children and due to developmental delays and the influences of families and the environment. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

ECE. 225 INFANT/TODDLER ENVIRONMENTS

An introduction to the design, maintenance and evaluation of quality infant/toddler and early intervention

environments for children birth to three years of age. Emphasis is placed on the CA State Department of Education "Infant Toddler Learning and Development Program Guidelines." *Grade Option (Letter Grade or Pass/No Pass).*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

ECE. 240 ECE ADMINISTRATION I: BUSINESS/LEGAL

Overview of the business aspects of caring for children in early childhood settings and its social, political and economic implications. Included are the legal and regulatory requirements for early childhood settings, laws relating to child care and facets of business and fiscal management. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ECE. 201 and ECE. 210 and ECE. 211 and ECE. 212 or equivalent.

Transfer Credit: CSU

ECE. 241 ECE ADMINISTRATION II: PERSONNEL AND LEADERSHIP

Focus on the human relations components of operating an early childhood setting and the social, political and economic implications for ECE professionals and parents. Other topics include staffing, supervision, licenses and/or credentials for staff, assessment and evaluation, state and federal regulations governing employment, issues in ECE and parent involvement. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ECE. 201 and ECE. 210 and ECE. 211 and ECE. 212 or equivalent.

Transfer Credit: CSU

ECE. 242 ADULT SUPERVISION AND MENTORING

Study of the methods and principles of supervising student teachers, assistant teachers, and volunteers in ECE education settings. Emphasis is on the role of classroom teachers who function as mentors to new teachers, while simultaneously addressing the needs of children, parents,

and other staff. Although this course is open to all students, it is specifically designed for those needing to meet state licensing requirements for ECE Masters Teachers, Site Directors, and Program Directors. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: ECE. 201 and ECE. 210 and ECE. 211 and ECE. 212 or equivalent.

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU

ECE. 244 CURRICULUM AND STRATEGIES FOR PREKINDERGARTEN TO KINDERGARTEN

A review of the criteria for high quality pre-kindergarten/preschool experiences for young children. Students will examine program and curriculum guidelines that are necessary in order to support children's emerging foundational skills and their transition to kindergarten. Topics covered include the political, economic, developmental and current issues related to kindergarten readiness and later school success. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

ECE. 260 CHILDREN WITH SPECIAL NEEDS

A survey of the issues related to children with special needs. Special needs refer to physical, sensory, communicative and behavioral disabilities. Additional topics include a historical perspective, current laws and legislation, inclusion practices in early childhood education settings, and appropriate community resources. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent. ECE. 201 or PSYC 201 or equivalent.

Transfer Credit: CSU

ECE. 261 EARLY INTERVENTION PRACTICES

Major elements of Early Intervention programs for children birth to five years, with an emphasis on intervention strategies, classroom modifications, activity-based

interventions, and differentiated instruction. Education plans (IEP/IFSP), current research, and descriptions of atypical development are included, along with best practices for children with disabilities in early childhood settings. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. ECE. 260 or equivalent

Transfer Credit: CSU

ECE. 263 CURRICULUM AND STRATEGIES FOR CHILDREN WITH SPECIAL NEEDS

Highlights best practices in Early Childhood Special Education. Curriculum adaptations, support strategies and embedded intervention to facilitate the development of cognitive, motor, social, emotional and language skills in young children with special needs (preschool, TK, and kindergarten) are discussed. Other topics include but are not limited to positive behavior support, functional behavior analysis, task analysis, collaborative teaching, and integrative lesson planning. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent. ECE. 260 and ECE. 201 or PSYC 201 or equivalent.

Transfer Credit: CSU

ECE. 272 TEACHING IN A DIVERSE SOCIETY

Examination of the development of social identities in diverse societies including theoretical and practical implications of culture, ethnicity, stereotyping and bias as they apply to young children, families, programs, classrooms and teaching. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

C-ID: ECE 230

ECE. 314 HEALTH, SAFETY, AND NUTRITION FOR YOUNG CHILDREN

Introduction to the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development for all children. Also listed as HSCI 314. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

C-ID: ECE 220

ECE. 331 THE ROLE OF THE TEACHER

Overview of the factors that contribute to success and satisfaction in teaching. Topics include: personal characteristics of teachers; stages of teacher development; teaching responsibilities; career opportunities; professional development; and the benefits of professional affiliations. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

ECE. 333 OBSERVATION AND ASSESSMENT

Provides an overview of the appropriate use of assessment and observational strategies to document development, growth, play and learning when advocating for children's success with families and professionals. Recording strategies, rating systems, portfolios, and multiple assessment tools are explored. Observation in an early childhood setting and outside on-going observations on a target child is a requirement of the course. It is a required course for the ECE Certificate and AS Degree program, and is also useful for Psychology and other Social Science majors who will be observing human behavior. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ECE. 201 or PSYC 201 or equivalent.

Transfer Credit: CSU



C-ID: ECE 200

ECE. 335 CHILD GUIDANCE

An introduction to child behavior and adult guidance for students, teachers, parents, and caregivers. An overview of the complexity of child behavior and options for responding effectively. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

ECE. 360 ADVOCACY IN THE EARLY CHILDHOOD FIELD

A focus on the importance of advocacy to improve the lives of children; to determine how the public and public policies affect the field of education; and to realize the need of a strong united voice to foster change. The course includes an introduction to labor organizing, and information on the path of legislation. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

ECE. 366 PRACTICUM IN EARLY CHILDHOOD EDUCATION

A demonstration of developmentally appropriate early childhood teaching competencies under guided supervision at approved sites. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, build a comprehensive understanding of children and families, acquire child centered, play-oriented approaches to teaching, learning, and assessment, and design, implement and evaluate developmentally appropriate curriculum. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 16-18 Lecture; 96-108 Field Experience; 32-36 Homework

Prerequisites: ECE. 201 or PSYC 201 and ECE. 210 and ECE. 211 and ECE. 212 and ECE. 333 or equivalent.

Transfer Credit: CSU

C-ID: ECE 210

ECE. 367 PRACTICUM IN EARLY CHILDHOOD EDUCATION: SPECIAL TOPICS

A demonstration of developmentally appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Required for the ECSE certificate, meets the supervised teaching requirement for the CA State CD teaching permit, and provides student teaching experience in qualified settings that serve children from infancy through middle childhood. *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 3

Hours/semester: 18-20.25 Lecture; 96-108 TBA; -60--67.5 Homework

Prerequisites: ECE. 201 and ECE. 210 and ECE. 260 and ECE. 263

Transfer Credit: CSU

ECE. 665 SELECTED TOPICS IN EARLY CHILDHOOD EDUCATION

This course is designed to develop specific skills that are utilized in Early Childhood Education environments. The course will focus on one specific topic; for example, multicultural curriculum, techniques to foster sense of community, selecting a preschool, handling behavior problems, working with parents, etc. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 0.5 - 2

Hours/semester: 8-36 Lecture; 16-72 Homework

Transfer Credit: CSU

ECE. 695 INDEPENDENT STUDY IN EARLY CHILDHOOD EDUCATION

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

Economics

ECON 100 PRINCIPLES OF MACRO ECONOMICS

Introduction to the U.S. economy and its institutions in a global context. Measuring output, unemployment, and inflation. Theory of the determination of output and prices for individual markets and the economy as a whole. Analysis of money, banking, and interest rates. Government fiscal and monetary stabilization policies. Current economic topics. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 110 or MATH 111 and MATH 112 or equivalent.

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4)

C-ID: ECON 202

ECON 102 PRINCIPLES OF MICROECONOMICS

Introduction to the functioning of markets. Theory of the determination of output and prices for markets under competitive and noncompetitive conditions. Analysis of firms' costs and revenues. Government tax and regulatory policies in response to imperfect competition and market failures. Current economic topics such as international trade and labor markets. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 110 or MATH 111 and MATH 112 or equivalent.

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent. ECON 100 or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4)

C-ID: ECON 201

ECON 111 THE ECONOMY TODAY

Non-theoretical consideration of current economic issues. Introduction to basic economic concepts and alternative perspectives. Current issues include unemployment,

inflation, banking, immigration, social security, international trade, and war. NOTE: Students who have received credit for ECON 100 or 102 may not receive credit for ECON 111. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D)

ECON 310 POLITICAL ECONOMY OF ASIA

This course provides a comparative study of the political economy of Asian countries, including political systems, economic growth, distribution of income, and international diplomatic and economic relationships. Students will learn the impact of European and U.S. colonialism, post-colonial political and economic developments, including market reforms in socialist countries to understand both development in relations among Asian nations and their relationship to the U.S. economy and foreign policy. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC

Education

See also listings under Early Childhood Education.

EDUC 200 INTRODUCTION TO CLASSROOM TEACHING

A survey of the teaching profession including: pedagogical methods; theories of learning; planning, delivering and assessing instruction; classroom management, professional and ethical considerations; diversity; and standards for the teaching profession. A total of 48 hours of fieldwork in public elementary schools is required. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Field Experience; 64-72 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU



Electronics Technology

ELEC 110 FUNDAMENTALS OF ELECTRONICS

Activity based introduction to the fundamentals of DC and AC electrical/electronic circuits. Course covers the basic mathematical laws, terminologies, testing and measuring of simple circuits. Laboratory exercises will emphasize the use of tools, electrical test instruments and measuring devices. *Letter Grade Only.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 16-18 TBA; 80-90 Homework

Transfer Credit: CSU

ELEC 410 INTRODUCTION TO SOLAR INSTALLATION AND INTEGRATION

Prerequisite: None Recommended: Completion of ELEC 110 with a grade of "C" or better, or concurrent enrollment in ELEC 110 or equivalent. An introductory course targeted to junior-level photovoltaic installers to provide a foundation of skills necessary in solar installation. Topics include electrical theory and practice, photovoltaic theory and integration and solar installation skills. The course is a balance of theory, hands-on practice and real world examples. Also listed as ENVS 410. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 3.5

Hours/semester: 48-54 Lecture; 24-27 Lab; 16-18 TBA; 80-90 Homework

Recommended: Completion of, or concurrent enrollment in, ELEC 110 or equivalent.

Transfer Credit: CSU

Emergency Medical Care

EMC. 400 EMERGENCY MEDICAL RESPONDER

Develops manipulative and problem solving skills necessary for the initial evaluation and stabilization of victims of emergency illness or trauma. First Responder-level training for fire service, emergency, law enforcement, civil, and industrial personnel. Upon completion, student receives an American Red Cross CPR for Healthcare Provider card and a Skyline College course completion certificate. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2.5

Hours/semester: 32-36 Lecture; 24-27 Lab; 64-72 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

EMC. 410 EMERGENCY MEDICAL TECHNICIAN

The first phase of training in the Emergency Medical Technician Career Structure. Covers all techniques of emergency medical care presently considered within the responsibilities of the Emergency Medical Technician, as well as all operational aspects of the job the EMT will be expected to perform. Meets National Emergency Medical Services Education Standards and 2015 American Heart Association guidelines. Students must be at least 18 years old on or before the first class session, proof of age required. *Letter Grade Only. Degree Credit.*

Units: 8

Hours/semester: 96-108 Lecture; 96-108 Lab; 16-18 TBA; 176-198 Homework

Prerequisites: EMC. 425 or equivalent; or a valid American Heart Association or Red Cross BLS Healthcare Provider CPR card.

Transfer Credit: CSU

EMC. 415 EMT REFRESHER

Provides 24 hours of CE -continuing education-required for Emergency Medical Technician certificate renewal. Students will receive a Continuing Education Certificate upon completion of the course. Students must attend the scheduled twenty-four hours to be eligible for the CE certificate. *Pass/No Pass Only. Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Prerequisites: An EMT certificate which is valid in the State of California and which is current or which has been expired no more than twelve months.

EMC. 425 CPR: HEALTH CARE PROVIDER

Qualifies students with CPR certification for health care providers. Includes instruction pertinent to adult, child and infant CPR. *Pass/No Pass Only. Degree Credit.*

Units: 0.5

Hours/semester: 8-9 Lecture; 16-18 Homework

Energy Systems Technology Management

ESTM 400 CLEAN ENERGY CONCEPTS, POLICIES AND INDUSTRIES

Fundamental energy and sustainability concepts in the regional, state, and federal context including: climate change; greenhouse gas emissions calculation and management; historical, current, and emerging policies and regulations for greenhouse gas and energy generation and use, including economic impacts; alternative energy technology; industry practices and careers across energy and construction sectors. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

ESTM 402 INTRODUCTION TO RESIDENTIAL CONSTRUCTION

Fundamental residential construction concepts, terminology, and practices, including framing, HVAC, insulation, electrical, plumbing, materials, and hands-on construction basics. Emphasis on green and sustainable building practices and renovations. Main issues in California and Bay Area codes and historical building trends regarding energy and environmental standards. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of, MATH 110 or MATH 111 and MATH 112 or BUS. 115 or equivalent; and ESTM 400 or equivalent.

Transfer Credit: CSU

ESTM 410 INTRODUCTION TO SOLAR INSTALLATION AND INTEGRATION

An introductory course targeted to junior-level photovoltaic installers to provide a foundation of skills necessary in solar installation. Topics include electrical theory and practice, photovoltaic theory and integration and solar installation skills. The course is a balance of theory, hands-on practice and real world examples. Also listed as ELEC 410. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3.5

Hours/semester: 48-54 Lecture; 24-27 Lab; 16-18 TBA; 80-90 Homework

Recommended: Completion of, or concurrent enrollment in, ELEC 110 or equivalent.

Transfer Credit: CSU

ESTM 411 INTRODUCTION TO SOLAR PHOTOVOLTAICS (PV) SYSTEMS AND MARKETS

Provides a foundation of knowledge and skills to understand the solar photovoltaics market and technology. Includes introduction to the global solar PV market, fundamentals of electricity and PV technology, introduction to incentive programs related to solar systems and fundamentals of the site survey process for a residential solar PV array. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of, MATH 110 or MATH 111 and MATH 112 or BUS. 115 or equivalent; and ESTM 400 or equivalent.

Transfer Credit: CSU

ESTM 412 SOLAR PHOTOVOLTAICS (PV) DESIGN FUNDAMENTALS

Foundation of knowledge and skills to understand the site survey and to translate survey data into estimation and design of solar photovoltaics systems. Includes detailed methodology for site surveys, shade analysis, system sizing, string and inverter sizing, the use of software system design tools, graphical PV system design aids. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of, MATH 110 or MATH 111 and MATH 112 or BUS. 115 or equivalent; and ESTM 400 or, ESTM 410 or ESTM 411 or equivalent.

Transfer Credit: CSU

ESTM 413 SOLAR PHOTOVOLTAICS (PV) FINANCE AND SALES

Economics and sales methodologies for residential solar PV energy systems. Methods and analysis of financing and investment for solar PV systems, including incentive programs and utility tariffs. Customer service and presentation skills and sales best practices. Focus on student's marketability in the renewable energy job



marketplace. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of, MATH 110 or MATH 111 and MATH 112 or BUS. 115 or equivalent; and ESTM 400 or ESTM 410 or ESTM 411 or ESTM 412 or equivalent.

Transfer Credit: CSU

ESTM 421 PRINCIPLES OF BUILDING SCIENCE, HOW HOUSES WORK

Exploration of how air flow, heat flow and moisture flow affect the health, comfort, durability and energy efficiency of the building. Students learn to identify, classify, and compare residential building components, systems, materials and understand and explain sustainable building practices and building science fundamentals. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of MATH 110, or MATH 111 and MATH 112, or BUS. 115 or equivalent; and, ESTM 400 or equivalent.

Transfer Credit: CSU

ESTM 425 COMMERCIAL AND RESIDENTIAL BUILDING PERFORMANCE CONCEPTS

Provides a foundation to conduct commercial and residential energy audits to identify applicable energy upgrades and building performance measures. Topics include fundamental building science and construction management concepts, best practices for auditing and data analysis, BPI standards and the Title 24 energy code. The class prepares students for applicable Building Performance Institute certification exams. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of MATH 110, or MATH 111 and MATH 112, with a grade of C or better, or equivalent. BUS. 115 or equivalent; and ESTM 400 and ESTM 402 or ESTM 421 or equivalent.

Transfer Credit: CSU

ESTM 426 BUILDING PERFORMANCE RETROFITTING

Provides a foundation to perform "whole-house" retrofits for energy/water efficiency. Students apply theory to conduct hands-on retrofitting. Topics include building science, energy assessment reports, developing work scope, HVAC and envelope upgrades, air leakage and sealing, insulation installation, moisture remediation, quality control. Preparation for Building Performance Institute certification exam. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of, MATH 110 or MATH 111 and MATH 112 or BUS. 115 or equivalent; and ESTM 400 or ESTM 402 or ESTM 421 or ESTM 425 or ESTM 427 or equivalent.

Transfer Credit: CSU

ESTM 427 INTRODUCTION TO WHOLE HOME HEATING, VENTILATION, AND COOLING (HVAC)

Overview of equipment, design, operation of residential heating, ventilation, and cooling systems. Appliance nameplates are decoded and the role of ducts and registers is explored. Students learn to use industry software to size equipment and ducts and design a simple space-conditioning system. Major challenges to energy use in new and existing systems. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of MATH 110 or MATH 111 or MATH 112 or BUS. 115 or equivalent; and ESTM 400 or ESTM 402 or ESTM 421 or equivalent.

Transfer Credit: CSU

ESTM 428 FIELD TRAINING AND EXAM PREPARATION FOR ENERGY EFFICIENCY

Hands-on, advanced field training course builds on fundamental knowledge, skills, and abilities for conducting home performance energy efficiency assessments. Students hone best practices for building systems assessment and data analysis, and producing technical reports with energy upgrade recommendations. Advanced preparation for Building Performance Institute (BPI) field certification exam. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5

Hours/semester: 24-27 Lab

Recommended: ESTM 425 or equivalent.

Transfer Credit: CSU

ESTM 441 SOLAR THERMAL TECHNOLOGY AND DESIGN

Introduction to technology, concepts, and methods of sizing and designing solar hot water systems. Includes site survey, load analysis, rebates and permitting issues, and safety. Methods for identifying and selecting appropriate thermal systems, installation and operation practices, and use of balance-of-system components. Emphasis on student's marketability in the renewable energy job marketplace. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of MATH 110 or MATH 111 and MATH 112 or BUS. 115 or equivalent; and ESTM 400 or ESTM 410 or ESTM 411 or equivalent.

Transfer Credit: CSU

ESTM 445 COMMERCIAL SOLAR PHOTOVOLTAICS (PV) FINANCE AND SALES

Advanced training in sales, finance, policy, and technology for commercial, institutional, and utility-scale PV solar installations. Includes best practices for sales and bidding, proposal analysis, finance options, incentives analysis, and case studies in project approval and development. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: MATH 110 or MATH 111 and MATH 112 or BUS. 115 or equivalent; and ESTM 410 or ESTM 411 or ESTM 412 or ESTM 413 or equivalent.

Recommended: ESTM 400 or equivalent.

Transfer Credit: CSU

ESTM 450 FUNDAMENTALS OF CONSTRUCTION MANAGEMENT

Introductory survey of basic concepts in construction management including industry overview, construction phases, project participant roles, estimation, bidding and contracts, licensing and legal issues, construction documents and office procedures, insurance and financing, construction accounting; project scheduling, project controls, construction project management software, safety

concerns and issues, leadership and supervisory/employee relationships. Also listed as MGMT 450. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. MATH 811 or equivalent.

Transfer Credit: CSU

ESTM 452 OSHA 10 CONSTRUCTION INDUSTRY TRAINING

Occupational Safety and Health Administration (OSHA) Standards, policies, and procedures in the construction industry. Topics include scope and application of the OSHA Construction Standards, construction safety and health principles, and special emphasis on those areas in construction that are most hazardous. Upon course completion students will have the ability to define construction terms found in the OSHA Construction Standards, identify hazards that occur in the construction industry, locate and determine appropriate OSHA Construction Standards, policies, and procedures, and describe the use of the OSHA Construction Standards and regulations to supplement an ongoing safety and health program. Also listed as MGMT 452. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

ESTM 455 PROJECT SITE MANAGEMENT EXPLORATION

Project management site exposure and perspective by visiting active construction worksites and engaging with construction management professionals in the field. Students will be exposed to a variety of construction projects so they may better understand the types of construction and the management methods employed. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5

Hours/semester: 24-27 Lab

Prerequisites: MGMT 450 or ESTM 450 or equivalent.

ESTM 480 ENERGY SUMMER CAMP

Introduces students to topics in energy efficiency, renewable energy, and basics of business management for the built environment and sustainability. Modules include energy efficiency and solar project assessment and proposals, installation techniques, entrepreneurship, business communications, and marketing/sales strategy.



Survey of careers and companies. Students will complete a social-media video and portfolio. Preparation for science, technology, and business students. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

ESTM 482 CONSTRUCTION BASICS I

Fundamental residential construction concepts, terminology, and practices, including mathematics, ratios and scales, safety, tools, framing, materials, and hands-on construction basics. Emphasis on green and sustainable building practices and renovations. (Units do not count toward the Associate Degree.) *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 2.5

Hours/semester: 24-27 Lecture; 48-54 Lab; 48-54 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

ESTM 484 CONSTRUCTION BASICS II

A continuation of Construction Basics I with focus on "hands-on" carpentry knowledge, skills, and abilities. The course will culminate with a student-build project encompassing the content of both courses. (Units do not count toward the Associate Degree.) *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 2.5

Hours/semester: 24-27 Lecture; 48-54 Lab; 48-54 Homework

Prerequisites: ESTM 482 or equivalent.

ESTM 490 CAPSTONE PROJECT IN ENERGY SYSTEMS TECHNOLOGY MANAGEMENT

Seminar format course emphasizing fieldwork, case study project, internship, or other advanced, special topic. Focus on completing a portfolio piece for a client or employer, demonstrating breadth and depth of knowledge in ESTM, taken as one of the final courses in the certificate or degree program. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5 - 3

Hours/semester: 16-18 Lecture; 30-120 Work Experience; 32-36 Homework

Prerequisites: At least 10 units of ESTM coursework, or equivalent.

Transfer Credit: CSU

ESTM 491 CLIMATE PROTECTION PROFESSIONAL I

Foundation for emerging leaders working in climate change mitigation and adaptation fields. Overview of climate change science (the greenhouse effect, emissions factors, and sources), current climate protection policies in California, including emerging regulations, and analytic tools, including mitigation and adaptation inventories and action plans. Includes professional training in project management, workplace effectiveness, communication, and fundraising. Also listed as ENVS 491. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ESTM 400 or ENVS 100 or equivalent.

Transfer Credit: CSU

ESTM 492 CLIMATE PROTECTION PROFESSIONAL II

Expansion on fundamentals of climate change concepts: science and expected impacts; mitigation and adaptation strategies; metrics for analyzing current impacts, forecasts and results from solution scenarios. Expansion of project management practices, career pathways, leadership, and career development skills, within the context of client site projects in preparation for final report and/or presentation. Also listed as ENVS 492. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ESTM 491 or ENVS 491 or equivalent.

Transfer Credit: CSU

ESTM 665 SELECTED TOPICS IN ENERGY SYSTEMS TECHNOLOGY MANAGEMENT

Short course for development of knowledge, skills, and abilities in environmental technology--energy efficiency, solar, and business management. Special topics could include public policies, business tactics, currents in new technology, market trends in clean energy, software skills, energy modeling, and field training. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 8-36 Lecture; 24-108 Lab; 16-72 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. MATH 110 or MATH 111 and MATH 112 or BUS. 115 or equivalent.

Transfer Credit: CSU

Engineering

ENGR 100 INTRODUCTION TO ENGINEERING

An introduction to the engineering profession and its different sub-disciplines, intended to provide a foundation for further study in engineering. The course explains the engineering education pathways and explores effective strategies for students to reach their full academic potential. It also provides an understanding of engineering processes and tools including experimentation, data analysis, and computer and communication skills. Emphasis is given to technical communications, ethical considerations, engineering design and analysis skills applied to illustrative projects and problems drawn from various engineering fields. A spreadsheet program (Microsoft Excel) and a computer language (MATLAB or equivalent) are introduced and used in the course. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: MATH 130 or equivalent.

Transfer Credit: CSU, UC

C-ID: ENGR 110

ENGR 210 ENGINEERING GRAPHICS

Introduction to graphical communication and design for engineers. The engineering design process, visualization, sketching, orthographic projection, formal engineering drawings, descriptive geometry, manufacturing processes, dimensioning and tolerancing practices. Use of Computer-Aided Design (CAD) software to support engineering design. Students complete weekly homework assignments and group design projects that develop sketching, design, and 2-D and 3-D CAD skills. Assignments may require the use of CAD software outside of class hours. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: MATH 130 or equivalent.

Transfer Credit: CSU, UC

ENGR 215 COMPUTATIONAL METHODS FOR ENGINEERS AND SCIENTISTS

Introduction to problem solving, programming, and computational methods using the MATLAB programming environment. Procedural programming, recursion, sorting, data structures, and an introduction to object-oriented programming. Plotting and data visualization, introduction to statistical analysis of data, systems of linear equations, numerical methods. Applications in engineering, mathematics, and the sciences. Assignments may require the use of MATLAB software outside of class hours. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: MATH 251 or equivalent.

Transfer Credit: CSU, UC

ENGR 230 STATICS

Vector treatment of force systems acting on particles and rigid bodies; two- and three-dimensional problems; equilibrium problems involving trusses, frames, machines, distributed forces, fluid statics, internal forces and friction; centroids and moments of inertia; shear and moment diagrams for beams and virtual work. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 252 and PHYS 250 or equivalent.

Transfer Credit: CSU, UC

ENGR 260 CIRCUITS AND DEVICES

An introduction to the analysis of electrical circuits. Use of analytical techniques based on the application of circuit laws and network theorems. Analysis of DC and AC circuits containing resistors, capacitors, inductors, dependent sources, operational amplifiers, transformers, and switches. Natural and forced responses of first and second order RLC circuits; phasors; steady-state sinusoidal analysis; AC power calculations; power transfer; three-phase circuits; and energy concepts. Characteristics and circuit models of electronic devices including diodes and transistors. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: PHYS 260 and completion of or concurrent enrollment in, MATH 275 or equivalent.

Transfer Credit: CSU, UC

C-ID: ENGR 260



ENGR 261 CIRCUITS AND DEVICES LABORATORY

An introduction to the design, construction, and measurement of electrical circuits. Basic use of electrical test and measurement instruments including multimeters, oscilloscopes, power supplies, function generators, and network and spectrum analyzers. Use of circuit simulation software. Interpretation of measured and simulated data based on principles of circuit analysis for DC, transient, and sinusoidal steady-state (AC) conditions. Practical considerations including component value tolerance and non-ideal aspects of measurement instruments. Design, measurement, and analysis of circuits with resistors, inductors, capacitors, transformers, diodes, transistors, and operational amplifiers. *Letter Grade Only. Degree Credit.*

Units: 1**Hours/semester:** 48-54 Lab**Prerequisites:** Completion of or concurrent enrollment in ENGR 260, ENGR 260 or equivalent.**Recommended:** Eligibility for ENGL 100 or ENGL 105, or equivalent. Completion of or concurrent enrollment in MATH 275**Transfer Credit:** CSU, UC**C-ID:** ENGR 260L**ENGR 270 MATERIALS SCIENCE**

Introduces and explores the internal structures and resulting behaviors of materials used in engineering applications, including metals, ceramics, polymers, composites, and semiconductors. The emphasis is upon developing the ability both to select appropriate materials to meet engineering design criteria and to understand the effects of heat, stress, imperfections, and chemical environments upon material properties and performance. Laboratories provide direct observations of the structures and behaviors discussed in the course, experience with the operation of testing equipment, and the preparation of experimental reports. *Letter Grade Only. Degree Credit.*

Units: 4**Hours/semester:** 48-54 Lecture; 48-54 Lab; 96-108 Homework**Prerequisites:** CHEM 210 and PHYS 250 or equivalent.**Transfer Credit:** CSU, UC**C-ID:** ENGR 140B**ENGR 400 INTRODUCTION TO STEM (SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS)**

Introduction to basic scientific concepts taken from biology, chemistry, computer science, engineering, mathematics and physics, the role of science as a human endeavor and the power of scientific inquiry to explore the interdependence of scientific fields through project based activities. STEM education pathways and careers will be investigated. *Letter Grade Only. Degree Credit.*

Units: 2**Hours/semester:** 16-18 Lecture; 48-54 Lab; 32-36 Homework**Prerequisites:** MATH 811 or equivalent.**Recommended:** Completion of, or concurrent enrollment in,, MATH 110 or equivalent.**Transfer Credit:** CSU**ENGR 405 ENGINEERING MAKERSPACE SUMMER EXPERIENCE**

Introduction to rapid prototyping (via engineering, design and construction) using materials accessible in a fabrication/maker space. Students will use equipment and materials to prototype a minimum viable product (MVP) while exploring strategies for entrepreneurship. (Units do not count towards an Associate's Degree) *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 2**Hours/semester:** 24-27 Lecture; 24-27 Lab; 48-54 Homework**ENGR 695 INDEPENDENT STUDY IN ENGINEERING**

Designed for students who are interested in furthering their knowledge via self-paced, individualized, directed instruction provided in selected areas to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 3**Hours/semester:** 24-162 Lab**Recommended:** Eligibility for ENGL 846 or ESOL 400, or equivalent.

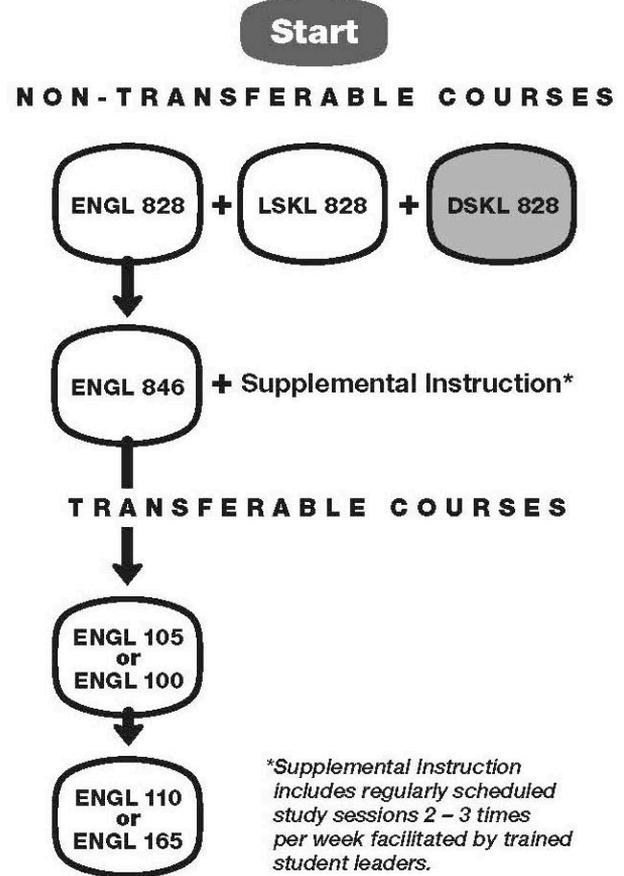
Transfer Credit: CSU

English

Literature courses are listed under LITERATURE. Courses for non-native speakers of English are listed under ENGLISH FOR SPEAKERS OF OTHER LANGUAGES.

Students are required to take the English/Reading placement tests prior to initial placement in courses. English/Reading placement tests are given to students to assist the counselor and the division in guiding them to the appropriate English course. Proper placement in English/Reading assures that students will begin their college studies in courses where they will have the best chance of success. The tests are given on announced dates throughout the year. Students who transfer to Skyline College and have taken a college English course equivalent to ENGL 100 or ENGL 846 at another institution need not take the test.

English Course Sequence



English Course Assessment

Skyline College offers students multiple assessment options. To determine which English course is the most appropriate starting place for you, please refer to Skyline College's Assessment Center website for detailed information on your options.

For more details about this chart please contact the English Department at <http://www.skylinecollege.edu/english/index.php>

ENGL 100 COMPOSITION

Course designed to help the student recognize and critically evaluate important ideas in short and book length texts, and express facts and thought logically and gracefully in clear and correct prose. Students will write critical expository essays dealing with a variety of ideas at a skill level appropriate to a college transfer level class. *Letter Grade Only.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ENGL 846 or ESOL 400 or eligibility for, ENGL 100 or ENGL 105 on necessary approved college placement tests and other measures as necessary.

AA/AS Degree Requirements: 3a, 3c; Area 9A1

Transfer Credit: CSU (CSU GE Area A2, A3), UC (IGETC Area 1A)

C-ID: ENGL 100

ENGL 103 APPLIED ENGLISH SKILLS FOR CULTURAL PRODUCTION I

This course is designed for students who want to develop critical thinking skills in the writing of a Pilipino Cultural Night (PCN) and will focus on writing the script for PCN. Students will research other PCNs, read and evaluate cultural literary texts related to the theme for content and composition, and work collaboratively to write a script to celebrate the Filipino and Filipino American experience. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C1

Transfer Credit: CSU

ENGL 104 APPLIED ENGLISH SKILLS FOR CULTURAL PRODUCTION II

This course is designed for students who want to develop critical thinking skills in the production of a Pilipino Cultural Night (PCN) and will focus on the creation of a PCN, including producing, advertising, acting, singing, dancing, stage/technical crew, and prop/set design and construction. Rehearsal times will be arranged by the instructor. All students will be required to participate in and work collaboratively for the PCN performances at the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C1

Transfer Credit: CSU

ENGL 105 INTENSIVE COMPOSITION AND READING

Course designed to help the student recognize and critically evaluate important ideas in short and book length texts,

and express facts and thought logically and gracefully in clear and correct prose. Students will write critical expository essays dealing with a variety of ideas at a skill level appropriate to a college transfer level class. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Prerequisites: ENGL 846 or ESOL 400 or eligibility for ENGL 100 or ENGL 105 on approved college placement tests and other measures as necessary.

AA/AS Degree Requirements: 3a, 3c; Area 9A1

Transfer Credit: CSU (CSU GE Area A2, A3), UC

ENGL 110 COMPOSITION, LITERATURE, AND CRITICAL THINKING

Transfer-level course introduces students to major imaginative genres of poetry, drama, and fiction from diverse cultural sources and literary critical perspectives. Students will write analytical essays, employing methods of literary analysis and research and demonstrating critical thinking skills appropriate to a college-level writing class. *Letter Grade Only.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ENGL 100 or ENGL 105 or equivalent.

AA/AS Degree Requirements: Area 9A1, 9C1

Transfer Credit: CSU (CSU GE Area A2, A3; Area C2), UC (IGETC Area 1B)

C-ID: ENGL 120

ENGL 161 CREATIVE WRITING I

The craft of writing short stories, sketches, poetry, short dramas, and other literary forms for both personal enjoyment and professional training. During the Spring Semester, class members may volunteer to work on the college's literary magazine. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for, ENGL 100 or ENGL 105 or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C2), UC

C-ID: ENGL 200

ENGL 162 CREATIVE WRITING II

The craft of writing short stories, sketches, poetry, short dramas, and other literary forms for both personal enjoyment and professional training. During the Spring Semester, class members may volunteer to work on the college's literary magazine. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ENGL 161 or equivalent.

Transfer Credit: CSU, UC

ENGL 165 CRITICAL THINKING AND ADVANCED COMPOSITION

Through investigative learning in conjunction with nonfiction prose, students will explore multiple points of view of controversial issues, using critical thinking, reading, and writing skills to discuss and manipulate ideas in a progression of argumentative essays more advanced than English 100. *Letter Grade Only.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ENGL 100 or ENGL 105 or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area A3), UC (IGETC Area 1B)

C-ID: ENGL 105

ENGL 203 APPLIED ENGLISH SKILLS FOR CULTURAL PRODUCTION III

This course is designed for students who want to develop advanced critical thinking skills in the writing of a Pilipino Cultural Night (PCN) and will primarily focus on developing the management roles of the production. Students will research other PCNs, read and evaluate cultural literary texts related to the theme for content and composition, and work collaboratively to write a script to celebrate the Filipino and Filipino American experience. In addition, these students will be meeting outside of class time to develop and advance their leadership skills in preparation for the upcoming Pilipino Cultural Night performances. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 5b

Transfer Credit: CSU

ENGL 204 APPLIED ENGLISH SKILLS FOR CULTURAL PRODUCTION IV

This course is designed for students who want to develop advanced critical thinking skills in the production of a Pilipino Cultural Night (PCN) by serving in the management roles of the production. This course will focus on the creation of a PCN, including producing, advertising, acting, singing, dancing, stage/technical crew, and prop/set design and construction. Rehearsal times will be arranged by the instructor. All students will be required to participate in and work collaboratively for the PCN performances at the end of the semester. In addition, the students enrolled in this course will be meeting outside of class time to demonstrate and further develop and advance their leadership skills in preparation for the upcoming Pilipino Cultural Night performances. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 5b

Transfer Credit: CSU

ENGL 650 ENGLISH SUPPLEMENT FOR TRIO STUDENTS

Individual instruction in reading and writing skills for TRIO students based on TRIO English instructor's/ coordinator's assessment of each student's reading and writing skills. Students are assigned a personal tutor/mentor in The Learning Center. (Open entry.) (Units do not count toward the Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

ENGL 695 INDEPENDENT STUDY IN ENGLISH

Designed for students who are interested in furthering their knowledge via self-paced, individualized, directed instruction provided in selected areas to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Pass/No Pass Only. Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab



Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

ENGL 819 ENGLISH DEVELOPMENT

This course prepares students to read and write at the college level. Practice and instruction focus on reading college-level texts and writing college-level, text-based essays. Topics include thesis construction, organization, development, and sentence skills. Students will complete in-class and outside writing assignments, application in digital video production, individual conferences, and tutoring. NOTE: This course does not replace any course in Skyline College's required course sequence based on placement testing. (Units do not apply to the Associate Degree.) *Letter Grade Only.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

ENGL 846 READING & WRITING CONNECTIONS

Introduces students to college-level reading and writing, covering thesis construction, organization, development, sentence skills, text-based writing, and effective reading strategies to improve comprehension, analysis and vocabulary. ENGL 846 prepares students for ENGL 100. Units do not count toward the Associate Degree. *Letter Grade Only. Units do not apply toward AA/AS degree.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

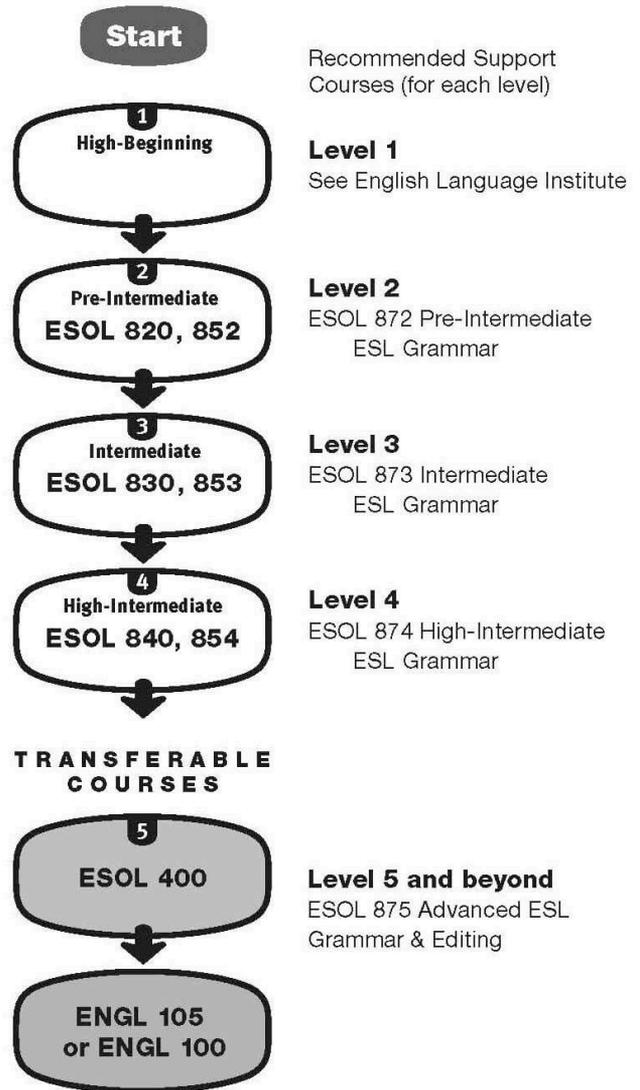
Prerequisites: Eligibility for, or completion of, ENGL 828 or eligibility for, ENGL 846 on approved college placement test or multiple measures, or equivalent.

Recommended: Students who placed into ENGL 828 should also enroll concurrently in LSKL 803.

English for Speakers of Other Languages

ESOL courses 810, 820, 830 and 840 are now offered in a three-course format at each level, for both day and evening classes. Students placing at the ESOL 810 level should enroll in ESOL 851, 861 and 871. Students placing at the ESOL 820 level should enroll in ESOL 852, 862 and 872. Students placing at the ESOL 830 and 840 levels may enroll in either the 9-unit daily format of those courses or the three-course format for each, as follows: ESOL 830 students may alternatively enroll in 853, 863 and 873. ESOL 840 students may alternatively enroll in 854, 864 and 874.

ESOL Program Sequence and Support Courses



For more details about this chart please contact the English for Speakers Of Other Languages Department at <http://www.skylinecollege.edu/esol/index.php>

ESOL 400 ENGLISH COMPOSITION FOR NONNATIVE SPEAKERS

For advanced non-native speakers of English who have completed ESOL 840, or equivalent. Emphasis on composing coherent, logical, expository essays based on thorough analysis of complex pieces of writing, both fiction and non-fiction, and utilizing advanced English language structure and vocabulary. Successful completion qualifies students for entrance into ENGL 100/105. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Prerequisites: ESOL 840 or appropriate skill level as indicated by ESL placement test and other measures as necessary.

Recommended: ESOL 854 and ESOL 875 or equivalent.

Transfer Credit: CSU, UC

ESOL 820 ENGLISH FOR SPEAKERS OF OTHER LANGUAGES II

For pre-intermediate English learners who have acquired conversational fluency and basic reading and writing skills. Emphasis is on critical reading, vocabulary acquisition, pre-intermediate grammar, sentence combining, and paragraph writing. (Units do not count toward the Associate Degree.) *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 6

Hours/semester: 96-108 Lecture; 192-216 Homework

Recommended: Appropriate skill level as indicated by ESL placement test and other measures as necessary.

ESOL 830 ENGLISH FOR SPEAKERS OF OTHER LANGUAGES III

For intermediate students who have studied the grammatical structures in ESOL 820, or equivalent, and have acquired conversational fluency and basic reading and writing skills. Emphasis is on critical reading, intermediate grammar, and paragraph and essay writing. *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 6

Hours/semester: 96-108 Lecture; 192-216 Homework

Recommended: ESOL 820 or equivalent.

ESOL 840 ENGLISH FOR SPEAKERS OF OTHER LANGUAGES IV

Offers practice in writing organized and well-developed paragraphs and essays to develop composition skills. Students will build reading skills with a focus on critical thinking. Emphasis on high-intermediate grammar structures and editing within the context of the student's own work. (Units do not count toward the Associate Degree.) *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 6

Hours/semester: 96-108 Lecture; 192-216 Homework

Recommended: ESOL 830 or equivalent.

ESOL 852 PRE-INTERMEDIATE ESL LISTENING & SPEAKING

Development of listening comprehension and oral proficiency of standard spoken English at the pre-intermediate level. Listening focuses on comprehension of modified spoken English, vocabulary in context, and ideas in monologues and discussions. Speaking focuses on clear pronunciation of common words and phrases, continued development of fluency in conversation, and proficiency in initiating, sustaining, and ending oral communication in a variety of contexts. *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Recommended: Appropriate skill level as indicated by ESL placement test and other measures as necessary.

ESOL 853 INTERMEDIATE ESL LISTENING & SPEAKING

Development of listening comprehension and oral proficiency of standard spoken English at the intermediate level. Listening focuses on note-taking and aural comprehension of standard spoken English using information from media, discussion, and academic contexts. Speaking focuses on English fluency, proficiency, and strategies for academic discussion and personal interaction. *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Recommended: ESOL 852 or equivalent.

ESOL 854 HIGH-INTERMEDIATE ESL LISTENING & SPEAKING

Development of listening comprehension and oral proficiency of standard spoken English at the high-intermediate level. Listening focuses on note-taking and aural comprehension of standard spoken English in academic situations, media, and discussion. Speaking focuses on development of professional and academic discourse, conveying of complex ideas, and active participation in discussion. *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Recommended: ESOL 853 or equivalent.



ESOL 872 PRE-INTERMEDIATE ESL GRAMMAR

Development of sentence variety and grammatical and mechanical accuracy of standard spoken and written English at the pre-intermediate level. *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Appropriate skill level as indicated by ESL placement test and other measures as necessary.

ESOL 873 INTERMEDIATE ESL GRAMMAR

Development of sentence variety and grammatical and mechanical accuracy of standard spoken and written English at the intermediate level. *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: ESOL 872 or ESOL 820 or equivalent.

ESOL 874 HIGH-INTERMEDIATE ESL GRAMMAR

Development of sentence variety and grammatical and mechanical accuracy of standard spoken and written English at the high-intermediate level. *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: ESOL 830 or ESOL 873 or equivalent.

ESOL 875 ADVANCED ESL GRAMMAR AND EDITING

Non-native English speaking students will review complex grammar and language structures applicable to academic writing as well as strategies for editing their own writing. This course assumes advanced study of English as a Second Language and the ability to read, write, and use English language structures appropriate to the level of ESOL 400. *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: ESOL 840 or ESOL 874 or equivalent, or appropriate skill level as indicated by ESL placement test and other measures as necessary.

Environmental Science and Technology**ENVS 100 INTRODUCTION TO ENVIRONMENTAL SCIENCE**

An interdisciplinary introduction to aspects of environmental and natural resource issues and their impact on human welfare. Exploration of causes of environmental issues in a natural sciences, social sciences, business and engineering context. Study of sustainability and potential solutions to environmental problems. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9B2

Transfer Credit: CSU (CSU GE Area B2), UC (IGETC Area 5B)

ENVS 101 ENVIRONMENTAL SCIENCE LABORATORY

Applied exercises that introduce the interdisciplinary aspects of environmental and natural resource issues and their impact on humans as well as how humans impact the natural environment. Exploration of causes of environmental issues in a natural sciences, social sciences, business and engineering context. Study of sustainability and potential solutions to environmental problems. Field trips are required. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Completion of or concurrent enrollment in, ENVS 100

Transfer Credit: CSU (CSU GE Area B3)

ENVS 400 ENVIRONMENTAL LITERACY FOR CAREER TECHNICAL PROGRAMS

A basic overview of general energy and sustainable concepts, climate change, carbon calculation and management, current and pending regulations for carbon, alternative energy technology, energy efficiency practices, and the emerging green economy for career technical programs. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

ENVS 410 INTRODUCTION TO SOLAR INSTALLATION AND INTEGRATION

Recommended: Completion of ELEC 110 with a grade of "C" or better, or concurrent enrollment in ELEC 110 or equivalent. An introductory course targeted to junior-level photovoltaic installers to provide a foundation of skills necessary in solar installation. Topics include electrical theory and practice, photovoltaic theory and integration and solar installation skills. The course is a balance of theory, hands-on practice and real world examples. Also listed as ELEC 410. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 3.5

Hours/semester: 48-54 Lecture; 24-27 Lab; 16-18 TBA; 80-90 Homework

Recommended: ELEC 110 better, or concurrent enrollment in ELEC 110 or equivalent. or

Transfer Credit: CSU

ENVS 425 BUILDING PERFORMANCE, ASSESSMENT, AND SALES

Provides a foundation to conduct home energy audits and sell home energy upgrade products and services. Topics include fundamental building science concepts, best practices for auditing and data analysis, BPI standards and the Title 24 energy code. The class prepares students for Building Performance Institute certification exam. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Recommended: Completion of MATH 110, or MATH 111 and MATH 112, with a grade of C or better, or equivalent. Eligibility for ENGL 846 or ESOL 400, or equivalent. ENVS 680SF or equivalent.

Transfer Credit: CSU

ENVS 491 CLIMATE PROTECTION PROFESSIONAL I

Foundation for emerging leaders working in climate change mitigation and adaptation fields. Overview of climate change science (the greenhouse effect, emissions factors, and sources), current climate protection policies in California, including emerging regulations, and analytic tools, including mitigation and adaptation inventories and action plans. Includes professional training in project management, workplace effectiveness, communication, and

fundraising. Also listed as ESTM 491. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ENVS 100 or ESTM 400 or equivalent.

Transfer Credit: CSU

ENVS 492 CLIMATE PROTECTION PROFESSIONAL II

Expansion on fundamentals of climate change concepts: science and expected impacts; mitigation and adaptation strategies; metrics for analyzing current impacts, forecasts and results from solution scenarios. Expansion of project management practices, career pathways, leadership, and career development skills, within the context of client site projects in preparation for final report and/or presentation. Also listed as ESTM 492. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ENVS 491 or ESTM 491 or equivalent.

Transfer Credit: CSU

ENVS 665 SELECTED TOPICS IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY

Short course for development of knowledge, skills, and abilities in environmental technology--energy efficiency, solar, and business development. Special topics could include public policies, business tactics, currents in new technology, market trends in clean energy, software skills, energy modeling, and field training. *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 0.5 - 2

Hours/semester: 8-32 Lecture; 24-96 Lab; 16-64 Homework

Recommended: Eligibility for MATH 110 and eligibility for, ENGL 846 and eligibility for, ESOL 400

Transfer Credit: CSU

ENVS 670 VOCATIONAL COOPERATIVE EDUCATION IN ENVIRONMENTAL SCIENCE & TECHNOLOGY

Students may receive credit for work experience related to their major field or to their established career goal. Seminars and individual conferences are scheduled at convenient times during the semester for the instructor and the student to establish learning objectives related to the student's employment. Students are given appropriate



assignments related to the stated objectives and graded in accordance with the college's established grading system. As an alternative, related instruction classes meeting one hour per week, usually in the evening, are available for those students who prefer or need a more structured learning process. One unit of credit for each 75 hours worked per semester, with a maximum of four units per semester, may be earned by students with jobs related to their academic or occupational majors or goals. May be repeated for credit up to 16 units. This limitation applies to Occupational Cooperative Education work experience courses offered within the SMCCCD. *Pass/No Pass Only.*

Units: 2

Hours/semester: 150-300 Work Experience

Prerequisites: Permission of the Cooperative Education Office, concurrent enrollment in a planned vocational program, and employment in a college-approved job directly related to the student's academic major.

Transfer Credit: CSU

ENVS 695 INDEPENDENT STUDY IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY

Designed for students who are interested in furthering their knowledge via self-paced, individualized, directed instruction provided in selected areas to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

Family and Consumer Sciences

FCS 310 NUTRITION

Comprehensive introduction to scientific principles of nutrition and the interrelationships of metabolism; nutrient functions, structure and food sources; health consequences of nutrient excesses, deficiencies and diet related chronic diseases. Emphasis is placed on evaluating the nutrient content of foods, and evaluation of personal dietary habits using current dietary guidelines and nutritional assessment methods. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent. Completion of MATH 110, or MATH 111 and MATH 112, with a grade of C or better, or equivalent.

AA/AS Degree Requirements: Area 9E1

Transfer Credit: CSU, UC

FCS 695 INDEPENDENT STUDY IN FAMILY AND CONSUMER SCIENCES

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

Filipino

Language Lab and Listening Requirement: Students enrolled in foreign language courses are required to make use of the language lab as prescribed by each department. Imitation, response, and independent practice are integral features of the study of a foreign language at the College.

FILI 110 ELEMENTARY FILIPINO

Beginner's course in Filipino grammar, composition, and reading. Practice in speaking and understanding Filipino. Introduction to the history, grammar, sentence structure, idioms, and cultural aspects naturally intertwined with the language; introduction to honorifics, formal second person singular form, respect particles, and everyday greetings and formularies indicating politeness and respect for the persons addressed. This class is conducted primarily in Filipino. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC

FILI 111 ELEMENTARY FILIPINO I

Filipino 111 is the first course in a basic two-course sequence for native and non-native students. The course covers approximately the same material studied in the first half of Filipino 110. Students will acquire a basic ability to speak, read and write in Filipino at the elementary level and will learn about the customs, culture and history of the Filipino world. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C2), UC

FILI 112 ELEMENTARY FILIPINO II

Three lecture hours plus one lab hour per week. Prerequisite: FILI 111 or equivalent. Filipino 112 is the second course in a basic two-course sequence for native and non-native students. The course covers approximately the same material studied in the second half of Filipino 110. Students will acquire a basic ability to speak, read and write in Filipino at the elementary level and will learn about the customs, culture and history of the Filipino world. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: FILI 111 or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C2), UC

FILI 120 ADVANCED ELEMENTARY FILIPINO

Five lecture hours and one lab hour per week by arrangement. Prerequisite: FILI 110 or 112, or equivalent. A continuation of FILI 110 or FILI 112, for students who can use Filipino to communicate about the "here and now" and relate a simple story in the past. Students practice and develop further communicative competence in written and spoken Filipino for use in a variety of social contexts and settings. Readings are used as the basis of classroom discussions. Cultural aspects of the Filipino-speaking-world are emphasized. The course is conducted primarily in Filipino. *Letter Grade Only.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Prerequisites: FILI 110 or FILI 112 or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 6A)

Film**FILM 440 FILM STUDY AND APPRECIATION**

A critical look at film history and culture from silent and classical Hollywood to Japanese and European films. Students learn to critique classical, modern and avant-garde films and to analyze the structure of cinematic language, i.e. motifs, metaphors, narrative cause-effect devices and oppositions. Students develop a visual and ideological understanding of film. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: ENGL 100 or ENGL 105 or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3A)

Geography**GEOG 100 PHYSICAL GEOGRAPHY**

An overview of the Earth's physical environment and natural systems. The different natural processes that create the distribution of lifeforms, climate patterns, temperatures, and landforms on our planet. Includes studying the Earth-Sun relationship, global temperatures and circulation, water and humidity, ecosystems, plate tectonics, and other processes that shape landforms on the surface of the Earth. Also includes how humans are affecting these systems, and some of the tools geographers use to understand these relationships (like maps, and geospatial technologies). *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B1), UC (IGETC Area 5A)

GEOG 101 PHYSICAL GEOGRAPHY LAB

Practical application of the basic concepts of Physical Geography. Students will use the tools of geography, such as maps and field observations, to enrich their understanding of the Earth's physical processes. Topics include Earth-Sun relationships, weather, climate, landforms, water, ecosystems, and their spatial

relationships. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Corequisites: GEOG 100

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU (CSU GE Area B3), UC

C-ID: GEOG 111

GEOG 106 WEATHER AND CLIMATE

Introduction to the study of Earth's atmosphere as a system, with an emphasis on the physical processes that change our atmosphere in the short term and throughout Earth's history. Topics include: atmospheric structure and composition, energy balances, seasonal changes, atmospheric moisture, storm systems, climate and climate change. Also listed as GEOL 106. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A, 5C)

C-ID: GEOG 130

GEOG 110 CULTURAL GEOGRAPHY

A survey of major world cultural patterns, resources, population, and the changing relationships of people and the physical environment. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4)

C-ID: GEOG 120

GEOG 150 WORLD REGIONAL GEOGRAPHY

A basic survey of geographic regions of the world. The location of physical and cultural regions such as mountain ranges, climatic regions, population centers, urban-economic concentrations, and political divisions. There will

be an emphasis on historical influences and future trends in the changing world. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4)

C-ID: GEOG 125

GEOG 300 GEOGRAPHIC INFORMATION SCIENCE

An introduction to the rapidly expanding field of Geographic Information Systems (GIS) and the broader discipline of Geographic Information Science. Includes both theory and software training, and provides a framework to understand how spatial data is gathered, integrated, interpreted, manipulated and analyzed. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent. Skill in using the Windows operating system and the internet, such as found in BCM. 104 and BCM. 400, or equivalent

Transfer Credit: CSU, UC

C-ID: GEOG 150

Geology

GEOL 100 SURVEY OF GEOLOGY

An introduction to the principles of geology with emphasis on Earth processes. Course includes the study of rocks and minerals, plate tectonics, volcanoes, earthquakes, and surface processes such as landslides, rivers, and glaciers. Not open to students who have taken or are taking Geology 210. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B1), UC

C-ID: GEOL 100

GEOL 105 ENVIRONMENTAL EARTH SCIENCE

An introduction to the fundamentals of Environmental Earth Science including the interactions between humans and the environment in a geologic context. Course emphasizes the Earth system and connections between the geosphere, biosphere, atmosphere, and hydrosphere. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B1), UC (IGETC Area 5A)

C-ID: GEOL 130

GEOL 106 WEATHER AND CLIMATE

Introduction to the study of Earth's atmosphere as a system, with an emphasis on the physical processes that change our atmosphere in the short term and throughout Earth's history. Topics include: atmospheric structure and composition, energy balances, seasonal changes, atmospheric moisture, storm systems, climate and climate change. Also listed as GEOG 106. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A, 5C)

C-ID: GEOG 130

GEOL 210 GENERAL GEOLOGY

An introduction to the principles of geology with emphasis on Earth processes, focusing on the internal structure and origin of the Earth and the processes that change and shape it. The laboratory component focuses on the identification of rocks and minerals, topographic and geologic map exercises and the identification of geologic landforms and hazards. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A)

C-ID: GEOL 101

GEOL 220 HISTORICAL GEOLOGY

Origin and history of the Earth and its development through geologic time. The formation of continents and ocean basins and their modifications through time. The evolution of plants and animals as seen through the fossil record. Emphasis on the geologic history of North America. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A)

C-ID: GEOL 111

GEOL 695 INDEPENDENT STUDY IN GEOLOGY

Designed for students who are interested in furthering their knowledge via self-paced, individualized, directed instruction provided in selected areas to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

Health Science

HSCI 100 GENERAL HEALTH SCIENCE

A broad and comprehensive survey of factors that influence individual and community health. Examines the interaction between personal health choices & behaviors, social determinants of health and environmental influences in community and personal health. Topics include chronic diseases, health disparities, mental health, drugs & addiction, stress management, sexual health, nutrition,



exercise, healthcare systems & services, alternative medicine, grief & loss, and environmental health. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9E1

Transfer Credit: CSU (CSU GE Area E1), UC

C-ID: PHS 100

HSCI 130 HUMAN SEXUALITY

Students explore and expand their understanding about the biological, interpersonal and sociocultural dimensions of sex and sexuality. Topics include: anatomy and physiology; psychosexual development; attraction, dating & relationships; gender expression; sexual orientations; pregnancy, childbirth & parenting; contraceptive methods; sexually transmitted infections; pleasure, arousal & sexual behavior; sexual violence & exploitation; commercial sex work; myths & misconceptions; and communication skills. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9E1

Transfer Credit: CSU (CSU GE Area E1), UC

C-ID: PSY 130

HSCI 135 INTRODUCTION TO PUBLIC HEALTH

Provides an introduction to the discipline of Public Health. Students will gain an understanding of the basic concepts, movements, accomplishments and functions of public health. Topics include the epidemiology of infectious and chronic disease; prevention and control of diseases; social determinants of health; health equity and disparities; community organizing and health promotion; environmental health and safety; global health; and healthcare policy and management. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU, UC

C-ID: PHS 101

HSCI 180 GATEWAY TO HEALTH CAREERS

Introduction of skills, attributes and basic knowledge required for entry into various health care professions. Includes basic assessment, CPR, and math calculations used in health care. Emphasis on providing a foundation for future health career classes. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

HSCI 314 HEALTH, SAFETY AND NUTRITION FOR YOUNG CHILDREN

Introduction to the laws, regulations, standards, policies, procedures and early childhood education curriculum related to child health safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development for all children. Also listed as ECE 314. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

HSCI 484 MEDICAL TERMINOLOGY

Designed to give students a basic background in medical terminology as used by medical transcriptionists, court reporters, law related occupations, and allied health occupations. The prefixes, roots, and suffixes of commonly used medical words are presented. Proper names of anatomical structures and their relationship to each other are covered by body system. Also listed as MEDA 484. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

History

HIST 100 HISTORY OF WESTERN CIVILIZATION I

The cultural, political, and economic survey of Western history from the beginnings in the Near East to the Renaissance. Emphasis on the intellectual, artistic, and institutional foundations of Western Civilization. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B; Area 4F)

C-ID: HIST 170

HIST 101 HISTORY OF WESTERN CIVILIZATION II

Western civilization from 1660 to the present, with particular emphasis on European cultural, social, and political development in the 19th and 20th centuries. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B; Area 4F)

C-ID: HIST 180

HIST 104 WORLD CIVILIZATIONS I

A global and historical survey of civilizations from ancient times to 1500. Emphasis on the origins and development of diverse cultures, political systems, major religions, noted empires, artistic/intellectual achievements and technological breakthroughs. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C1

Transfer Credit: CSU (CSU GE Area C2; Area D), UC (IGETC Area 3B; Area 4C)

C-ID: HIST 150

HIST 106 WORLD CIVILIZATIONS II

A global and historical survey course of world civilizations from 1500 to the present. Emphasis on the origins of global interdependence, revolutions and nationalist movements, the global economy, cultural and religious issues, technological advancements, and current social issues. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C1

Transfer Credit: CSU (CSU GE Area C2; Area D), UC (IGETC Area 3B; Area 4C)

C-ID: HIST 160

HIST 108 SURVEY OF AMERICAN HISTORY

Explores major social, political, and cultural developments in the history of the United States. Examines selected events, personalities and trends from the colonial period to the present. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 6a; Area 9D3; Area DUS1, DUS2

Transfer Credit: CSU (CSU GE Area D, D US-1, D US-2), UC (IGETC Area 3B; Area 4)

HIST 109 EUROPE SINCE 1945

History of Europe from the end of WWII through the present. A comparison of the political, social, economic and cultural elements. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 4)

HIST 201 UNITED STATES HISTORY I

U.S. History to the mid-19th century, emphasizing the development of U.S. political, social, economic and cultural foundations. Partially satisfies the American History and Institutions requirement. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 6a; Area 9D1; Area DUS1, DUS2

Transfer Credit: CSU (CSU GE Area D, D US-1, D US-2), UC (IGETC Area 3B; Area 4)

HIST 202 UNITED STATES HISTORY II

U.S. History from Reconstruction (1877) to the present. Topics include the political, economic, and social development of the U.S., the contributions of ethnic and racial groups, the issue of immigration, and U.S. role in the world community. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 6a; Area 9D1; Area DUS1

Transfer Credit: CSU (CSU GE Area C2; Area D US-1), UC (IGETC Area 3B, 4; Area 4G)

C-ID: HIST 140

HIST 203 THE UNITED STATES SINCE 1945

History of the United States from 1945 to the present. Course focuses on the principal political, social, economic, and cultural challenges and achievements in American life. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1, 9D1

Transfer Credit: CSU (CSU GE Area C2; Area D), UC (IGETC Area 3B; Area 4G)

HIST 235 HISTORY OF ETHNIC GROUPS IN THE UNITED STATES

A survey of the social, economic and political history of ethnic groups in the United States, with particular emphasis on minority communities. In addition to examining the histories of individual ethnic communities, the class will explore the historical relationships between different groups. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: ENGL 100 or ENGL 105 or equivalent

AA/AS Degree Requirements: Area 5a; Area 6a; Area 9D1; Area DUS1

Transfer Credit: CSU (CSU GE Area D US-1), UC (IGETC Area 3B; Area 4)

HIST 240 HISTORY OF ETHNIC GROUPS IN CALIFORNIA

A survey of the social, economic, and political history of ethnic groups in California. In addition to examining the histories of individual ethnic communities, the class will explore the historical relationships between different groups. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU (CSU GE Area D US-2), UC (IGETC Area 3B; Area 4)

HIST 244 AFRICAN AMERICAN HISTORY

A history of the African-American community, beginning with an introduction to West African society and continuing through colonial times to the present. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 6a; Area 9D1; Area DUS1, DUS2

Transfer Credit: CSU (CSU GE Area D, D US-1, D US-2), UC (IGETC Area 3B; Area 4)

HIST 248 WOMEN AND THE AMERICAN EXPERIENCE

The history of women in the United States from the colonial era to the present. Topics include ways in which women have lived, worked and contributed to the social, cultural, political and economic development of the U.S. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9D3

Transfer Credit: CSU (CSU GE Area C2; Area D), UC (IGETC Area 3B; Area 4G)

HIST 265 AMERICAN LABOR HISTORY

Examines the dynamics of labor throughout American History. Explores the role of labor in shaping America politically and socially, as well as internationally in order to better understand business and labor today. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 6a; Area 9D1; Area DUS1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 3B; Area 4)

HIST 300 HISTORY OF SAN FRANCISCO

History of San Francisco from its discovery to the present focusing on how it became a prominent U.S. city. Major topics: geography, native populations, European discovery, gold rush, multicultural aspects, social life, politics, natural disasters, crime and punishment, neighborhoods, historical landmarks, parks, transportation, architecture, and international events. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: ENGL 100, ENGL 105 or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4G)

HIST 310 CALIFORNIA HISTORY

The history of California from the Indian period to the present. Topics to include the social, economic, political, and cultural development of the state. Emphasis on contemporary California. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 6b1; Area 9D1; Area DUS2

Transfer Credit: CSU (CSU GE Area D US-2), UC (IGETC Area 3B; Area 4)

HIST 335 HISTORY AND POLITICS OF THE MIDDLE EAST

Examination of the historical, political, economic and social issues of the Middle East, including the Israeli-Palestinian Conflict and U.S. foreign policy in the area. Also listed as PLSC 335. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: ENGL 100, ENGL 105 or equivalent

AA/AS Degree Requirements: Area 5b

Transfer Credit: CSU (CSU GE Area C2; Area D), UC (IGETC Area 3B; Area 4)

HIST 410 THE HOLOCAUST

A study of the history and events of the Holocaust, including the birth of Antisemitism, the rise of Adolph Hitler and the Nazi Party, WWII, the Final Solution, the Nuremberg Trials and aftermath. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

HIST 420 SURVEY OF LATIN AMERICAN HISTORY

A comparative, chronological and thematic history of regional Latin America, including geography, indigenous people, early contact with Europeans, conquest, movement of people, and the struggle for independence. The development of modern Latin American Nations, cultural

uniqueness, economics, politics, religion, society, and cultural histories will be explored as well. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B; Area 4)

HIST 429 HISTORY OF LATINOS IN THE UNITED STATES

Examination of the impact of the Latino/a Diaspora on the culture, identity and politics in the United States from Spanish exploration in the Americas to the contemporary period. Emphasis on the Latino/a effect on American political, cultural, and economic systems and institutions. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 6a; Area 9C2, 9D3

Transfer Credit: CSU (CSU GE Area C2; Area D), UC (IGETC Area 4)

HIST 430 EARLY ASIAN CIVILIZATIONS

A historical and cultural survey of East Asia, South Asia, Southeast Asia, and the Philippines from the origins to the 18th century. Emphasis will be on a critical evaluation of the main social, political, economic, cultural, intellectual and historical trends which have shaped the Asian countries. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b

Transfer Credit: CSU (CSU GE Area C2; Area D), UC (IGETC Area 3B; Area 4)

HIST 432 MODERN ASIAN CIVILIZATIONS

A historical and cultural survey of East Asia, South Asia, Southeast Asia, and the Philippines from the 17th century to the present. Emphasis will be on a critical evaluation of

the main social, political, economic, cultural, intellectual and historical trends that have shaped the Asian countries. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b

Transfer Credit: CSU (CSU GE Area C2; Area D), UC (IGETC Area 3B; Area 4)

HIST 435 HISTORY OF THE PHILIPPINES

A historical and cultural survey of the Philippines from the origins to the present. Emphasis will be on a critical evaluation of the main social, political, economic, cultural, intellectual and historical trends which have shaped the Philippines. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: ENGL 100 or ENGL 105 or equivalent

AA/AS Degree Requirements: Area 5b; Area 9C1

Transfer Credit: CSU (CSU GE Area C2; Area D), UC (IGETC Area 3B; Area 4G)

HIST 436 FILIPINOS IN AMERICA

A historical and cultural survey of Filipinos in America from early settlements in Louisiana, Hawaii and the West Coast to the present. Emphasis will be on a critical evaluation of the main social, political, economic, cultural, intellectual and historical trends that shaped the various Filipino communities in the United States. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9D1

Transfer Credit: CSU, UC (IGETC Area 4)

HIST 444 SURVEY OF SUB-SAHARAN AFRICAN HISTORY

Survey of Sub-Saharan African History. Topics include the origins and impact of the slave trade, European colonialism, political, social, and economic development, and contemporary issues. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b

Transfer Credit: CSU (CSU GE Area C2; Area D), UC (IGETC Area 3B; Area 4)

HIST 453 HISTORY OF CHINA

A historical and cultural survey of China from its legendary creation to the present. Emphasis will be on a critical evaluation of the main social, political, economic, cultural, intellectual and historical trends that have shaped China. A study of China and the various Asian civilizations surrounding China is encouraged as a means of acquiring a broad comparative perspective. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C1

Transfer Credit: CSU (CSU GE Area C2; Area D), UC (IGETC Area 3B; Area 4)

HIST B10 HISTORY OF RELIGION IN THE UNITED STATES

Exploration of the role of religious movements and figures in the historical development of the U.S. from the founding of the nation to the present. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Admission to the Bachelor of Science in Respiratory Care Program.

Hospitality and Tourism Management

HTM. 101 INTRODUCTION TO HOSPITALITY AND TOURISM MANAGEMENT

An exploration of career options and operations in the field of hospitality and tourism management. An overview of the trends and developments in hospitality, international tourism, global travel, and foodservice establishments, with a focus on customer service, cultural/economic trends, and the various career opportunities that exist. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

HTM. 108 TECHNOLOGY ESSENTIALS IN HOSPITALITY

Understand technology systems used in hospitality and tourism businesses. A focus on emerging use of smart technologies, including iPads in the guest rooms, Web 2.0, and new hotel and restaurant information systems. Hands-on learning opportunities with the use of "Delphi" simulations, a software technology most often used in sales, catering and convention services departments. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

HTM. 120 SANITATION PRACTICES IN THE HOSPITALITY INDUSTRY

Sanitation practices as they affect the individual and hospitality operations. Students will use materials from the Educational Foundation of the National Restaurant Association to complete the ServSafe Certification. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

HTM. 124 EXCELLENCE IN GUEST SERVICE

In this short course students will prepare to take the Certified Guest Service Professional (GSP) exam awarded through the American Hotel and Lodging Association. This course focuses on quality customer service: what it is and how to deliver it, in a hospitality business, benefits of high quality customer service, skills to engage the guest, effective strategies for handling dissatisfied customers and service recovery techniques. *Letter Grade Only. Degree Credit.*

Units: 0.5

Hours/semester: 8-9 Lecture; 16-18 Homework

Transfer Credit: CSU



HTM. 125 RESTAURANT AND BANQUET OPERATIONS

Preparation for entry-level positions in restaurant and hospitality banquet operations. Course covers front of the house service for all types of food service operations, such as Banquet Server and Restaurant Server. The course includes preparation to take the ServSafe Responsible Alcohol Certification and the Food Handler Certification Exam. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

HTM. 130 FOOD & BEVERAGE / RESTAURANT MANAGEMENT

Techniques and procedures of management are explored and developed as they relate to commercial and institutional food and beverage facilities. Topics include: functions of management, marketing, menu development, effective cost control in purchasing, pricing, labor and service techniques. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

HTM. 140 INTRODUCTION TO MEETING, EVENT AND CONFERENCE MANAGEMENT

An introduction to a specialized area of study in hospitality and tourism, focusing on meetings, conference and event planning. The fundamental elements and best practices for planning, producing, and evaluating successful meetings, conventions, and conferences. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

HTM. 164 LEGAL ASPECTS OF HOSPITALITY AND TOURISM

Gain a working knowledge of laws and regulations applicable to the hospitality and tourism industry. This course examines government regulation of the hospitality industry along with rights, obligations and liabilities of hospitality businesses. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

HTM. 230 HOTEL AND RESORT MANAGEMENT

An introduction to the operational systems/departments and components of a hotel-resort facility, which includes: front office, housekeeping, food and beverage, sales and marketing, accounting, property maintenance, human resources management and information systems. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

HTM. 231 FOOD, BEVERAGE, AND LABOR COST CONTROLS

Gain the necessary knowledge and skills required to manage and make intelligent business decisions within a food and beverage operation or department; with a focus on: standards determination; variable, semi-variable and fixed costs; the operating budget; income and cost control and menu pricing. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

HTM. 665 SELECTED TOPICS IN HOSPITALITY AND TOURISM

Designed to offer students specialized training in unique/specialized hospitality and tourism topics. Students will gain valuable knowledge pertaining to this ever-changing industry along with an array of emerging skill development opportunities. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 8-36 Lecture; 16-72 Homework

Transfer Credit: CSU

HTM. 672 HOSPITALITY AND TOURISM INTERNSHIP

Practical and "hands-on" learning experience in hotel/lodging, foodservice and hospitality & tourism business.

Individually designed for students to acquire "real world" learning opportunities and gain additional knowledge in the hospitality and tourism industry. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 225 Work Experience

Prerequisites: HTM. 101 and HTM. 108 and HTM. 120 and HTM. 164 and HTM. 230 and HTM. 231 or equivalent.

Transfer Credit: CSU

International Business

See also listings under Business.

IBUS 100 GLOBAL TRADE AND LOGISTICS I

Covers concepts that are important to managers who are actively exporting or importing goods or are otherwise involved in international trade operations. All relevant issues are thoroughly explored, including documentation, terms of payment, terms of trade (Incoterms), exchange rate exposure, international insurance, customs clearance, agency and distributorship sales contracts, packaging, transportation, and security issues. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU

IBUS 101 GLOBAL TRADE AND LOGISTICS II

Covers the concepts of drivers in the industry sectors of cost, competition, market and technology. These drivers are important to managers who are actively exporting or importing goods or are otherwise involved in international trade operations. All relevant issues are thoroughly explored, including documentation, terms of payment, terms of trade (Incoterms), exchange rate exposure, international insurance, customs clearance, agency and distributorship sales contracts, packaging, transportation, and security issues. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

IBUS 102 CUSTOMS BROKERAGE AND PROCEDURES I

An introduction to international purchase-sale agreement negotiations, use of Incoterms, foreign exchange and collections, an introduction to international supply chains and cargo transportation, and cargo risk management. The course will include: Foreign custom laws, industry standards, leases, consignments, marine air and casualty insurance, and methods of transportation. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU

IBUS 103 CUSTOMS BROKERAGE AND PROCEDURES II

An overview of U.S. Customs Regulations, rules, procedures, and the risks and responsibilities of importing goods into the United States. Topics covered include: Foreign Trade Zones, Free Trade Agreements, Special Entry Procedures, Transportation Entries, Duty Free and Reduced Duty programs, record keeping requirements. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU

IBUS 104 PRINCIPLES OF CUSTOMS COMPLIANCE

An introduction to customs brokerage. Students will study The Code of Federal Regulations Title 19 which contains the codified Federal laws and regulations governing the customs duties. The course will also provide an overview of business concepts and procedures involved in importing merchandise into the United States. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU



IBUS 113 INTRODUCTION TO SUPPLY CHAIN MANAGEMENT

Introduction to Supply Chain Management: Tools and techniques for design and improvement of supply chain management; optimal use of information, materials, and technology to improve efficiency and reduce costs; integration of outside suppliers and customers into an organization's supply chain. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU

IBUS 115 COMPUTERIZED LOGISTICS

Introduction to available software programs used in the logistics sector. Students will learn about areas of supply chain management, manufacturing, planning and control, and logistics industry. Course content will introduce industry practices and standards using software applications for enterprise resource planning, demand planning, and warehouse management. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU

IBUS 200 INTRODUCTION TO INTERNATIONAL BUSINESS

An introduction to international business strategy and management. Topics includes international trade theory and how companies develop competitive advantage in international markets, production and financial management, and risk management. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU

IBUS 210 INTERNATIONAL FINANCE

Introduction to and examination of the practical aspects of international trade finance. Includes topics such as different types of lenders, domestic and foreign government assistance programs for trade assistance,

methods of payment, trade financing, and managing risks in international trade finance. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D)

IBUS 243 LEGAL ENVIRONMENT OF INTERNATIONAL BUSINESS

Introduction to various topics related to the legal implications of the financial, economic, cultural, and political environment of international business. Students will develop a theoretical and practical approach to doing business as a multinational company in a global environment. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU

Journalism

JOUR 110 MASS MEDIA AND SOCIETY

A general-interest survey course which provides a historical and theoretical perspective through which to assess the impact the mass media - newspapers, magazines, the Internet, radio, television, film, advertising, and public relations - have had on society. Students will learn about the rights and responsibilities of the media, as well as the way in which economic, ethical, and legal concerns influence media decisions. The course trains students to become discerning media consumers in this information-saturated age. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ENGL 846 or ESOL 400 or equivalent

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4)

C-ID: JOUR 100

JOUR 120 WRITING AND REPORTING FOR THE MEDIA

Fundamentals of news writing and reporting, including organization of basic news stories, lead writing, development of sources, interviewing, news judgment, copy editing, and legal/ethical issues. Designed for students interested in a career in journalism or mass communications, as well as those seeking better writing skills. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for, ENGL 100 or equivalent.

Transfer Credit: CSU, UC

C-ID: JOUR 110

JOUR 121 ADVANCED WRITING AND REPORTING FOR THE MEDIA

Focus on advanced reporting skills and convergence journalism, including conveying stories through more than text. Students enhance their reporting and news writing by supplementing text with audio, photos, and video; creating interactive graphics; beat blogging; utilizing social media, and cultivating data journalism skills. Designed to prepare students for the converging worlds of print, broadcast and online journalism. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: JOUR 120 or equivalent.

Transfer Credit: CSU, UC

C-ID: JOUR 120

JOUR 300 NEWSPAPER STAFF

Production of the college newspaper. Discussion and criticism by staff of the publication. Students will get practical experience in writing as preparation for future print and electronic media work. May be repeated for credit a maximum of three times. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 48 Other; 96-108 Homework

Prerequisites: ENGL 836 or ESOL 400 or equivalent.

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of, or concurrent enrollment in, JOUR 120 or equivalent.

Transfer Credit: CSU

JOUR 320 BEGINNING NEWSPAPER STAFF

Focus on the production of the student news publications, including the print newspaper, The Skyline View, its online version, TheSkylineView.com, and all other media platforms through which content is expressed. Students concentrate their work in one of the following: report, write and edit articles for the print and online versions of The Skyline View; take and edit photographs; research for and create informational graphics; develop multimedia stories; design and layout pages of the print newspaper, including in-house advertising; post to and maintain social media sites. Ethical and legal issues are also covered. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 48-54 TBA; 48-54 Homework

Prerequisites: ENGL 846 Eligibility for or ESOL 400 or equivalent

Transfer Credit: CSU

C-ID: JOUR 130

JOUR 330 INTERMEDIATE NEWSPAPER STAFF

Focus on the production of the student news publications, including the print newspaper, The Skyline View, its online version, TheSkylineView.com, and all other media platforms through which content is expressed. Students take a leadership or management role on the paper, while they also concentrate their work in one of the following: report, write and edit articles for the print and online versions of The Skyline View; take and edit photographs; research for and create informational graphics; develop multimedia stories; design and layout pages of the print newspaper, including in-house advertising; post to and maintain social media sites. Ethical and legal issues are also covered. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 48-54 TBA; 48-54 Homework

Prerequisites: JOUR 320 or equivalent.

Transfer Credit: CSU

C-ID: JOUR 131

JOUR 340 INTERMEDIATE ADVANCED NEWSPAPER STAFF

Description This course focuses on the production of the student news publications, including the print newspaper, The Skyline View, its online version, TheSkylineView.com, and all other media platforms through which content is expressed. Students take a training and leadership or management role on the paper, while they also concentrate



their work in one of the following: report, write and edit articles for the print and online versions of The Skyline View; take and edit photographs; research for and create informational graphics; develop multimedia stories; design and layout pages of the print newspaper, including in-house advertising; post to and maintain social media sites. Ethical and legal issues are also covered. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 48-54 TBA; 48-54 Homework

Prerequisites: JOUR 330 or equivalent.

Transfer Credit: CSU

JOUR 350 ADVANCED NEWSPAPER STAFF

This course focuses on the production of the student news publications, including the print newspaper, The Skyline View, its online version, TheSkylineView.com, and all other media platforms through which content is expressed. Students take a training and leadership or management role on the paper. They also do advanced reporting for the paper in one of the following areas: investigative and in-depth stories, public affairs reporting; or data-driven reporting. Students also coordinate one special add-on section for the newspaper. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 48-54 TBA; 48-54 Homework

Prerequisites: JOUR 340 or equivalent.

Transfer Credit: CSU

JOUR 695 INDEPENDENT STUDY IN JOURNALISM

Designed for students who are interested in furthering their knowledge via self-paced, individualized, directed instruction provided in selected areas to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

Kinesiology – Adaptive Physical Education

See [repeatability statement](#) listed at the beginning of the Kinesiology (KINE) course listings for more information on limitations on the repetition of courses.

ADAP 358 ADAPTED STRENGTH DEVELOPMENT

An introduction to the discipline of Physical Education through strength development in the context of an individual's physical, intellectual, and / or affective abilities and limitations. Topics will include equipment use, etiquette, safety, nutrition and techniques related to strength training for individuals with disabilities. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

Prerequisites: Physician's recommendation or assignment by the College Health Counselor or Division Dean (on recommendation of instructor)

Corequisites: ADAP 359

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

ADAP 359 BALANCE AND FUNCTIONAL MOVEMENT FOR THE PHYSICALLY LIMITED

Assessment and training to enhance coordination, balance and neuromuscular function. Emphasis on enhancing functional movement, movement efficiency resulting in improved posture, and functional movement experiences. Variable unit sections are open entry. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

Prerequisites: Physician's recommendation or assignment by the College Health Counselor or Division Dean (on recommendation of instructor)

Corequisites: ADAP 358

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

Kinesiology – Combatives

See [repeatability statement](#) listed at the beginning of the Kinesiology (KINE) course listings for more information on limitations on the repetition of courses.

COMB 105.1 JIU JITSU I

Introduction to the skills and strategies of Jiu Jitsu. Concepts of fitness and cardiovascular conditioning achieved through participating in Jiu Jitsu. Development of effective self-defense techniques through application of martial arts skills. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2)

COMB 105.2 JIU JITSU II

Instruction in submission techniques of Jiu Jitsu. Specific offensive and defensive techniques to be used against an opponent along with escapes and submissions from a variety of different positions. Participation in intermediate level sparring with emphasis on safety. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2)

COMB 105.3 JIU JITSU III

Continuing study of Jiu Jitsu. Development of greater self confidence, social and leadership skills. New Jiu Jitsu skills and techniques requiring greater proficiency in skills introduced in Jiu Jitsu II. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2)

COMB 301 BEGINNING WRESTLING

Instruction in rules and scoring systems. Instruction in take downs, escapes, reversals, breakdowns, rides, and pinning combinations. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

COMB 302 INTERMEDIATE WRESTLING

Intermediate level wrestling instruction. Dual competition and class tournament. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

Prerequisites: COMB 301 or equivalent.

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

COMB 401.1 SELF DEFENSE I

A beginning level course designed to teach the principles and skills of self-defense. Areas covered will be mental preparation, avoidance of situations conducive to assault, punching, kicking, pressure points and defenses. Includes instruction in both non-violent and violent defenses. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

COMB 401.2 SELF DEFENSE II

An intermediate level course designed to teach the principles and skills of self-defense. Includes mental preparation, avoidance of situations conducive to assault, punching, kicking, pressure points and defenses. Instruction in both non-violent and violent defenses. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

COMB 401.3 SELF DEFENSE III

An advanced intermediate level course designed to teach the principles and skills of self-defense including mental preparation, avoidance of situations conducive to assault, punching, kicking, pressure points and defenses. Instruction in both non-violent and violent defenses. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC



COMB 401.4 SELF DEFENSE IV

An advanced level course designed to teach the principles and skills of self-defense including mental preparation, avoidance of situations conducive to assault, punching, kicking, pressure points and defenses. Includes instruction in both non-violent and violent defenses at an advanced level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

Kinesiology – Dance

See [repeatability statement](#) listed at the beginning of the Kinesiology (KINE) course listings for more information on limitations on the repetition of courses.

DANC 100 DANCE APPRECIATION

An overview of dance history, beginning with classical era folk and ethnic dance, this course will survey the development of Modern, Ballet, Jazz and other dance forms. Focusing largely on the 20th Century, students will read, write and watch videos to form an overview of the history of dance and the historical events that influenced the major choreographers of the 20th Century. NOTE: This course is not activity-based and is not applicable to the specific area requirement in Physical Education for the Associate Degree. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

DANC 102 A SURVEY OF JAZZ DANCE FROM STREETS TO STAGE

Beginning with the mid-nineteenth century, the course will survey the evolution of jazz dance in musical theater onstage and in film, in particular focusing on the cultural and historical impact that Jazz dance had in the lives of women and minorities. NOTE: This course is not activity-based and is not applicable to the specific area requirement in Physical Education for the Associate Degree. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9C1, 9C2

Transfer Credit: CSU (CSU GE Area C1, C2), UC (IGETC Area 3A, 3B)

DANC 117.1 TAP DANCE I

Beginning Tap Dance technique. Tap vocabulary, rhythmic patterns and style while developing dexterity, musicality and basic performance skills. Opportunities will be available to perform, in order to better appreciate tap dance. Choreography and improvisational group projects/presentations develop over the course of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 117.2 TAP DANCE II

Intermediate Tap Dance technique. Tap vocabulary, rhythmic patterns and style while developing dexterity, musicality and basic performance skills. Opportunities will be available to perform, in order to better appreciate tap dance. Choreography and improvisational group projects/presentations develop over the course of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 121.1 CONTEMPORARY MODERN DANCE I

Beginning level instruction in the Contemporary Modern Dance style, including warm-up and floor movement with an emphasis on proper techniques, creativity, style and self expression. Students will learn short dance phrases and will be expected to analyze, choreograph and/or perform a modern dance by the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 121.2 CONTEMPORARY MODERN DANCE II

Intermediate level instruction in the Contemporary Modern Dance style, including warm-up and floor movement with an emphasis on proper techniques, creativity, style and self expression. Students will learn short dance phrases and will be expected to analyze, choreograph and/or perform a modern dance by the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 121.3 CONTEMPORARY MODERN DANCE III

Advanced intermediate level instruction in the Modern Dance style, including warm-up and floor movement with an emphasis on proper techniques, creativity, style and self expression. Students will learn short dance phrases and will be expected to analyze, choreograph and/or perform a modern dance by the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 121.4 CONTEMPORARY MODERN DANCE IV

Advanced level instruction in the Contemporary Modern Dance style, including warm-up and floor movement with an emphasis on proper techniques, creativity, style and self expression. Students will learn short dance phrases and will be expected to analyze, choreograph and/or perform a modern dance by the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 130.1 JAZZ DANCE I: LYRICAL, POP & BROADWAY

Jazz Dance covers American jazz-inspired movement techniques developed for musical theater, film and television. Developed by fusing African American social dance forms with Ballet, Modern and Tap dances, Jazz Dance emphasizes body-lines, flexible torso, exaggerated

movements of individual body parts, isolations and precise footwork. Jazz dance is ever-changing because it reflects the cultural trends of the times. In multiple styles of Jazz dance, including lyrical and blues, musical theater, and hip hop/ street/funk styles, students will work towards mastery at the beginning level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 130.2 JAZZ DANCE II – LYRICAL, POP AND BROADWAY

Jazz Dance covers American jazz-inspired movement techniques developed for musical theater, film and television. Developed by fusing African American social dance forms with Ballet, Modern and Tap dances, Jazz Dance emphasizes body-lines, flexible torso, exaggerated movements of individual body parts, isolations and precise footwork. Jazz dance is ever-changing because it reflects the cultural trends of the times. In multiple styles of Jazz dance, including lyrical and blues, musical theater, and hip hop/ street/funk styles, students will work towards mastery at the intermediate level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 130.3 JAZZ DANCE III – LYRICAL, POP AND BROADWAY

Jazz Dance covers American jazz-inspired movement techniques developed for musical theater, film and television. Developed by fusing African American social dance forms with Ballet, Modern and Tap dances, Jazz Dance emphasizes body-lines, flexible torso, exaggerated movements of individual body parts, isolations and precise footwork. Jazz dance is ever-changing because it reflects the cultural trends of the times. In multiple styles of Jazz dance, including lyrical and blues, musical theater, and hip hop/ street/funk styles, students will work towards mastery at the advanced intermediate level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 130.4 JAZZ DANCE IV – LYRICAL, POP AND BROADWAY

Jazz Dance covers American jazz-inspired movement techniques developed for musical theater, film and television. Developed by fusing African American social dance forms with Ballet, Modern and Tap dances, Jazz Dance emphasizes body-lines, flexible torso, exaggerated movements of individual body parts, isolations and precise footwork. Jazz dance is ever-changing because it reflects the cultural trends of the times. In multiple styles of Jazz dance, including lyrical and blues, musical theater, and hip hop/street/funk styles, students will work towards mastery at the advanced level *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 140.1 BALLETT I

Beginning barre, floor technique and movement fundamentals with emphasis on body control, form and special patterns. Students will learn a variety of dance phrases. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 140.2 BALLETT II

Intermediate barre, floor technique and movement fundamentals with emphasis on body control, form and special patterns. Students will learn a variety of dance phrases. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 140.3 BALLETT III

Advanced intermediate barre, floor technique and movement fundamentals with emphasis on body control, form and special patterns. Students will learn a variety of dance phrases. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 140.4 BALLETT IV

Advanced barre, floor technique and movement fundamentals with emphasis on body control, form and special patterns. Students will learn a variety of dance phrases. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 150.1 HIP HOP I

Beginning practical experience in current hip-hop techniques, body isolations, directional changes, level changes and hip-hop variations of Jazz and African dance forms. Students learn the characteristic terminology, coordination, step-counting and performance skills. Students perform hip-hop technical drills and choreography. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 150.2 HIP HOP II

Intermediate level Hip-hop Dance choreography, alignment, floor patterns with group interactions and projects. A variety of hip-hop dance phrases, intermediate hip-hop terminology and correct body alignment as it applies to hip-hop dance. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 151.1 SOCIAL DANCE I

Beginning Social Dance class emphasizing the basics of several dance styles, including footwork, posture, and the arts of leading, following, and co-creating a dance. Each

semester dances are selected from the following list: East Coast Swing, Slow Waltz, Cha cha, Night Club Two- Step, Tango, Foxtrot, Rumba, Merengue and Salsa. Partners are not required; no prior experience needed. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 151.2 SOCIAL DANCE II

Intermediate Social Dance class emphasizing the basics of several dance styles, including footwork, posture, and the arts of leading, following, and co-creating a dance. Each semester dances are selected from the following list: East Coast Swing, Slow Waltz, Cha cha, Night Club Two- Step, Tango, Foxtrot, Rumba, Merengue and Salsa. Partners are not required; no prior experience needed. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 151.3 SOCIAL DANCE III

Advanced Intermediate Social Dance class emphasizing the basics of several dance styles, including footwork, posture, and the arts of leading, following, and co-creating a dance. Each semester dances are selected from the following list: East Coast Swing, Slow Waltz, Cha cha, Night Club Two- Step, Tango, Foxtrot, Rumba, Merengue and Salsa. Partners are not required; no prior experience needed. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 151.4 SOCIAL DANCE IV

Advanced Social Dance class emphasizing the basics of several dance styles, including footwork, posture, and the arts of leading, following, and co-creating a dance. Each semester dances are selected from the following list: East Coast Swing, Slow Waltz, Cha cha, Night Club Two- Step, Tango, Foxtrot, Rumba, Merengue and Salsa. Partners are not required; no prior experience needed. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 152.1 CUBAN SALSA I

Beginning level Cuban Salsa, focused on the fundamentals of Cuban popular dances, including Salsa, Cha Cha Cha, Bolero and Salsa Rueda. Liberate your salsa dance moves in the Cuban style by integrating the traditional Afro-Cuban elements. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 152.2 CUBAN SALSA II

Intermediate level Cuban Salsa, focused on the fundamentals of Cuban popular dances, including Salsa, Cha Cha Cha, Bolero and Salsa Rueda. Liberate your salsa dance moves in the Cuban style by integrating the traditional Afro-Cuban elements. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 152.3 CUBAN SALSA III

Advanced intermediate level Cuban Salsa, focused on the fundamentals of Cuban popular dances, including Salsa, Cha Cha Cha, Bolero and Salsa Rueda. Liberate your salsa dance moves in the Cuban style by integrating the traditional Afro-Cuban elements. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 152.4 CUBAN SALSA IV

Advanced level Cuban Salsa, focused on the fundamentals of Cuban popular dances, including Salsa, Cha Cha Cha, Bolero and Salsa Rueda. Liberate your salsa dance moves in the Cuban style by integrating the traditional Afro-Cuban elements. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*



Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 161 TANGO ARGENTINO

Dance the Argentine Tango (the dance of love) and learn basic improvisational skills. Viewing tango as a language, students will develop musicality and focus on the connection between partners in order to dance confidently in social settings around the world. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 162 TANGO MILONGA

Dance the Tango Milonga, an Argentine dance which is the precursor to the tango. Viewing tango and Milonga as a language, students will develop musicality and focus on the connection between partners in order to dance confidently in social settings. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 163 TANGO BUENOS AIRES

Experience many of the most fun Tango Buenos Aires steps from the past and today. Students will begin to develop more confidence, demystifying and internalizing the tango's structural elements and intricacies. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 164 TANGO DE LA CONFITERIA

Designed to strip Tango de la Confiteria down to its joyful essence, with many of the most fun steps of Buenos Aires from the past and today. The focus is on connecting with one's partner, dancing rhythmically, and feeling harmonious and happy in one's body, with one's partner and with the

music. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 330.1 CREATIVE DANCE I

Beginning level instruction on the principles of dance composition through individual experiences, studies in use of varied stimuli, processes of dance construction and simple compositional forms. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 330.2 CREATIVE DANCE II

Intermediate level instruction on the principles of dance composition through individual experiences, studies in use of varied stimuli, processes of dance construction and simple compositional forms. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 330.3 CREATIVE DANCE III

Advanced intermediate level instruction on the principles of dance composition through individual experiences, studies in use of varied stimuli, processes of dance construction and simple compositional forms. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 330.4 CREATIVE DANCE IV

Advanced level instruction on the principles of dance composition through individual experiences, studies in use of varied stimuli, processes of dance construction and simple compositional forms. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 350.1 CARDIO DANCE I

Steps, stretches and toning movements from many dance sources; Latin, hip hop, folk, jazz, ballet, modern, rock, etc., that are choreographed to various rhythms designed to develop cardiovascular efficiency at a beginning level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 350.2 CARDIO DANCE II

Steps, stretches and toning movements from many dance sources; Latin, hip hop, folk, jazz, ballet, modern, rock, etc., that are choreographed to various rhythms designed to develop cardiovascular efficiency at an intermediate level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 350.3 CARDIO DANCE III

Steps, stretches and toning movements from many dance sources; Latin, hip hop, folk, jazz, ballet, modern, rock, etc., that are choreographed to various rhythms designed to develop cardiovascular efficiency at an advanced intermediate level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 350.4 CARDIO DANCE IV

Steps, stretches and toning movements from many dance sources; Latin, hip hop, folk, jazz, ballet, modern, rock, etc., that are choreographed to various rhythms designed to develop cardiovascular efficiency at an advanced level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 391 DANCE COMPOSITION - THEORY AND CHOREOGRAPHY

Choreographic principles and techniques are learned through discussion and practical experience in various dance styles. Study of dance choreography to include construction of phrases; structure and form in a composition; and the basic elements of time, space and energy as used to create dance as a performing art. NOTE: This course is not activity-based and is not applicable to the specific area requirement in Physical Education for the Associate Degree. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 395.1 DANCE WORKSHOP I

Designed to provide a structured workshop for students to collaborate and develop choreographic works at the beginning level. Students will dance in other students' work, and may also choreograph their own pieces. Students will perform these works for peer analysis and performance. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 395.2 DANCE WORKSHOP II

Designed to provide a structured workshop for students to collaborate and develop choreographic works at the intermediate level. Students will dance in other students' work, and may also choreograph their own pieces. Students will perform these works for peer analysis and performance. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC



DANC 395.3 DANCE WORKSHOP III

Designed to provide a structured workshop for students to collaborate and develop choreographic works at the advanced intermediate level. Students will dance in other students' work, and may also choreograph their own pieces. Students will perform these works for peer analysis and performance. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 395.4 DANCE WORKSHOP IV

Designed to provide a structured workshop for students to collaborate and develop choreographic works at the advanced level. Students will dance in other students' work, and may also choreograph their own pieces. Students will perform these works for peer analysis and performance. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 400.1 DANCE PERFORMANCE AND PRODUCTION I

Beginning level dance performance, composition, and program production. Students will work with various choreography principles, stage production tasks and dance in a variety of styles. Rehearsal times will be arranged with the instructor. NOTE: Students wishing to fulfill the requirement for the Dance Major should enroll in 2 units. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 400.2 DANCE PERFORMANCE AND PRODUCTION II

Intermediate level dance performance, composition, and program production. Students will work with various choreography principles, stage production tasks and dance in a variety of styles. Rehearsal times will be arranged with the instructor. NOTE: Students wishing to fulfill the requirement for the Dance Major should enroll in 2 units. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 400.3 DANCE PERFORMANCE AND PRODUCTION III

Advanced Intermediate level dance performance, composition, and program production. Students will work with various choreography principles, stage production tasks and dance in a variety of styles. Rehearsal times will be arranged with the instructor. NOTE: Students wishing to fulfill the requirement for the Dance Major should enroll in 2 units. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 400.4 DANCE PERFORMANCE AND PRODUCTION IV

Advanced level dance performance, composition, and program production. Students will work with various choreography principles, stage production tasks and dance in a variety of styles. Rehearsal times will be arranged with the instructor. NOTE: Students wishing to fulfill the requirement for the Dance Major should enroll in 2 units. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 410.1 DANCE FOR THE MUSICAL THEATER PRODUCTION I

Designed to prepare students to perform at the beginning level in a musical theater production. Students will learn the historical context of the play, costuming and perform choreography specific to the production. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 16-18 Lecture; 48-54 Lab; 32-36 TBA

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 410.2 DANCE FOR THE MUSICAL THEATER PRODUCTION II

Designed to prepare students to perform at the intermediate level in a musical theater production. Students will learn the historical context of the play, costuming and perform choreography specific to the production. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 16-18 Lecture; 48-54 Lab; 32-36 TBA

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 410.3 DANCE FOR THE MUSICAL THEATER PRODUCTION III

Designed to prepare students to perform at the advanced intermediate level in a musical theater production. Students will learn the historical context of the play, costuming and perform choreography specific to the production. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 16-18 Lecture; 48-54 Lab; 32-36 TBA

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 410.4 DANCE FOR THE MUSICAL THEATER PRODUCTION IV

Designed to prepare students to perform at the advanced level in a musical theater production. Students will learn the historical context of the play, costuming and perform choreography specific to the production. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 16-18 Lecture; 48-54 Lab; 32-36 TBA

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 665 SELECTED TOPICS: DANCE IN CULTURAL CONTEXT

This course is designed to introduce students to the fundamentals of different styles of dance from selected cultures. In-depth study of selected dance forms as Flamenco, Congolese, Salsa, African-Brazilian, Swing, and Capoeira will be offered and one hour by arrangement per week. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 1

Hours/semester: 24-54 Lab; 16 Other

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

Kinesiology – Fitness

See [repeatability statement](#) listed at the beginning of the Kinesiology (KINE) course listings for more information on limitations on the repetition of courses.

FITN 106 VARSITY CONDITIONING

Intended for out-of-season varsity athletes to provide fitness and strength programs that will prepare them for intercollegiate competition. May include strength, cardiovascular, agility, speed and sport specific training. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 107 INTERCOLLEGIATE FITNESS

Intended for in-season varsity athletes to maintain fitness during their intercollegiate season. Strength training, cardiovascular conditioning, flexibility, injury prevention, psychological preparation and nutrition will be emphasized. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7

Transfer Credit: CSU, UC

FITN 112.1 CROSS TRAINING I

A beginning level course designed to incorporate strength training and fitness concepts for overall body conditioning using a variety of fitness activities. Class may include Spinning, weight training or resistance exercises, yoga, Pilates, hiking, running, and/or fitness walking. Students will improve fitness levels, increase strength and flexibility, and lose body fat while participating in a variety of fitness activities. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-48 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC



FITN 112.2 CROSS TRAINING II

An intermediate level course designed to incorporate strength training and fitness concepts for overall body conditioning using a variety of fitness activities. Students will improve fitness levels, increase strength and flexibility, and lose body fat while participating in a variety of fitness activities. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-48 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 112.3 CROSS TRAINING III

An advanced intermediate level course designed to incorporate strength training and fitness concepts for overall body conditioning using a variety of fitness activities. Students will improve fitness levels, increase strength and flexibility, and lose body fat while participating in a variety of fitness activities. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-48 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 112.4 CROSS TRAINING IV

An advanced level course designed to incorporate strength training and fitness concepts for overall body conditioning using a variety of fitness activities. Students will improve fitness levels, increase strength and flexibility, and lose body fat while participating in a variety of fitness activities. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-48 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 116.1 BODY CONDITIONING I

Instruction and personal fitness program development on a beginning level. Emphasis on various stretching and flexibility methods, the design of individual strength programs, and latest information of scientific application to developing aerobic fitness and wellness at a beginning level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 116.2 BODY CONDITIONING II

Instruction and personal fitness program development on an intermediate level. Emphasis on various stretching and flexibility methods, the design of individual strength programs, and latest information of scientific application to developing aerobic fitness and wellness at an intermediate level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 116.3 BODY CONDITIONING III

Instruction and personal fitness program development on an advanced intermediate level. Emphasis on various stretching and flexibility methods, the design of individual strength programs, and latest information of scientific application to developing aerobic fitness and wellness at an advanced intermediate level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 116.4 BODY CONDITIONING IV

Continued instruction and personal fitness program development on an advanced level. Emphasis on various stretching and flexibility methods, the design of individual strength programs, and latest information of scientific application to developing aerobic fitness and wellness at an advanced level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 166.1 GOLF FITNESS I

Intended for golfers of all ages and beginning fitness levels. Students will increase strength, flexibility and cardiovascular fitness levels in activities and exercises geared towards improving golf performance. Beginning level individualized

programs will be created. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 166.2 GOLF FITNESS II

Intended for golfers of all ages and fitness levels. Students will increase strength, flexibility and cardiovascular fitness levels in intermediate level activities and exercises geared towards improving golf performance. Intermediate level individualized programs will be created. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 166.3 GOLF FITNESS III

Intended for golfers of all ages and fitness levels. Students will increase strength, flexibility and cardiovascular fitness levels in advanced intermediate level activities and exercises geared towards improving golf performance. Advanced intermediate level individualized programs will be created. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 166.4 GOLF FITNESS IV

Intended for golfers of all ages and fitness levels. Students will increase strength, flexibility and cardiovascular fitness levels in advanced level activities and exercises geared towards improving golf performance. Advanced level individualized programs will be created. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 199.1 INTERACTIVE CARDIOVASCULAR FITNESS I

A beginning level fitness course utilizing technology to verify performance via self-reported cardiovascular exercise, assignments, testing and discussion. Students will learn to improve fitness through the use of cardiovascular exercise. Students are required to have an instructor-approved tracking application installed on a GPS-enabled device. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 16-18 Lecture; 48-54 Lab; 32-36 Homework

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 199.2 INTERACTIVE CARDIOVASCULAR FITNESS II

An intermediate level fitness course utilizing technology to verify performance via self-reported cardiovascular exercise, assignments, testing and discussion. Students will improve fitness through the use of cardiovascular exercise. Students are required to have an instructor-approved tracking application installed on a GPS-enabled device. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 16-18 Lecture; 48-54 Lab; 32-36 Homework

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 201.1 WEIGHT TRAINING I

Instruction at a beginning level in lifts and protocols of weight training. Emphasis on form and techniques, safety procedures and strength values of weight lifting using barbells, weight machines and similar equipment. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 201.2 WEIGHT TRAINING II

Instruction at an intermediate level in lifts and protocols of weight training. Emphasis on form and techniques, safety procedures and strength values of weight lifting using barbells, weight machines and similar equipment. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*



Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 201.3 WEIGHT TRAINING III

Instruction at an advanced intermediate level in lifts and protocols of weight training. Emphasis on form and techniques, safety procedures and strength values of weight lifting using barbells, weight machines and similar equipment. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 201.4 WEIGHT TRAINING IV

Instruction at an advanced level in lifts and protocols of weight training. Emphasis on form and techniques, safety procedures and strength values of weight lifting using barbells, weight machines and similar equipment. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 219.1 CORE FITNESS TRAINING I

Designed to provide core strengthening, stretching and aerobic exercise with focus on spine stabilization postures and proper knee alignment at a beginning level to improve athletic performance, activities of daily living, and injury prevention. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 219.2 CORE FITNESS TRAINING II

Designed to provide core strengthening, stretching and aerobic exercise with focus on spine stabilization postures and proper knee alignment at an intermediate level to improve athletic performance, activities of daily living, and

injury prevention. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 219.3 CORE FITNESS TRAINING III

Designed to provide core strengthening, stretching and aerobic exercise with focus on spine stabilization postures and proper knee alignment at an advanced intermediate level to improve athletic performance, activities of daily living, and injury prevention. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 219.4 CORE FITNESS TRAINING IV

Designed to provide core strengthening, stretching and aerobic exercise with focus on spine stabilization postures and proper knee alignment at an advanced level to improve athletic performance, activities of daily living, and injury prevention. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 301.1 SPINNING I

A beginning level aerobic exercise performed on a stationary racing bicycle and done to high-cadence music. An exciting and fast-paced workout to lose body weight or improve aerobic conditioning. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 301.2 SPINNING II

An intermediate level aerobic exercise performed on a stationary racing bicycle and done to high-cadence music. An exciting and fast-paced workout to lose body weight or

improve aerobic conditioning. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 301.3 SPINNING III

An advanced intermediate level aerobic exercise performed on a stationary racing bicycle and done to high-cadence music. An exciting and fast-paced workout to lose body weight or improve aerobic conditioning. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 301.4 SPINNING IV

An advanced level aerobic exercise performed on a stationary racing bicycle and done to high-cadence music. An exciting and fast-paced workout to lose body weight or improve aerobic conditioning. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 304.1 WALKING FITNESS I

Beginning level cardiovascular fitness through walking. Students will evaluate their individual levels of cardiovascular fitness and develop a beginning level personal walking program. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 304.2 WALKING FITNESS II

Gain intermediate level cardiovascular fitness through walking. Students will evaluate their individual levels of cardiovascular fitness and develop an intermediate level personal walking program. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 304.3 WALKING FITNESS III

Students gain an advanced intermediate level understanding of cardiovascular fitness through walking. Students will evaluate their individual levels of cardiovascular fitness and develop a advanced intermediate level personal walking program. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 304.4 WALKING FITNESS IV

Students gain an advanced level understanding of cardiovascular fitness through walking. Students will evaluate their individual levels of cardiovascular fitness and develop a advanced level personal walking program. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 305.1 CARDIOVASCULAR DEVELOPMENT - RUNNING EMPHASIS I

Instruction in methods to achieve total fitness through beginning level cardiovascular activities with emphasis on running. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 305.2 CARDIOVASCULAR DEVELOPMENT - RUNNING EMPHASIS II

Instruction in methods to achieve total fitness through intermediate level cardiovascular activities with emphasis on running. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2



Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 305.3 CARDIOVASCULAR DEVELOPMENT - RUNNING EMPHASIS III

Instruction in methods to achieve total fitness through advanced intermediate level cardiovascular activities with emphasis on running. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 305.4 CARDIOVASCULAR DEVELOPMENT - RUNNING EMPHASIS IV

Instruction in methods to achieve total fitness through advanced level cardiovascular activities with emphasis on running. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 308.1 HIKING AND TREKKING FOR FITNESS I

Introduction to the cardiovascular and weight loss benefits of the use of trekking poles while hiking. A fitness course for the outdoor enthusiast, classes will be conducted on local Bay Area trails. Trekking poles are recommended but not required. *Pass/No Pass Only. Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 308.2 HIKING AND TREKKING FOR FITNESS II

Continued experience in the use of trekking poles while hiking; cardiovascular and weight loss benefits of the use of trekking poles while hiking. Classes will be conducted on local Bay Area trails. Trekking poles are recommended but not required. *Pass/No Pass Only. Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 308.3 HIKING AND TREKKING FOR FITNESS III

Continued experience in the use of trekking poles at an advanced intermediate level while hiking; cardiovascular and weight loss benefits of the use of trekking poles while hiking. Classes will be conducted on local Bay Area trails. Trekking poles are recommended but not required. *Pass/No Pass Only. Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 308.4 HIKING AND TREKKING FOR FITNESS IV

Continued experience in the use of trekking poles at an advanced level while hiking; cardiovascular and weight loss benefits of the use of trekking poles while hiking. Classes will be conducted on local Bay Area trails. Trekking poles are recommended but not required. *Pass/No Pass Only. Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 314.1 BACKPACKING FOR FITNESS I

Designed to increase fitness and strength. Introduces students to many aspects of backpacking including identification of necessary backpacking equipment and supplies, development of a trip plan, investigation and avoidance of potential safety risks, and completion of a safe overnight backpacking excursion. Students will be expected to pay fees associated with campsite reservation. *Pass/No Pass Only. Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 314.2 BACKPACKING FOR FITNESS II

Designed to increase fitness and strength at an intermediate level. Continuing exploration of many aspects of backpacking including Identification of necessary backpacking equipment and supplies, development of a trip plan, investigation and avoidance of potential safety risks, and completion of a safe overnight backpacking excursion. Students will be expected to pay fees associated with campsite reservation. *Pass/No Pass Only. Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 314.3 BACKPACKING FOR FITNESS III

Designed to increase fitness and strength at an advanced intermediate level. Continuing exploration of many aspects of backpacking including Identification of necessary backpacking equipment and supplies, development of a trip plan, investigation and avoidance of potential safety risks, and completion of a safe overnight backpacking excursion. Students will be expected to pay fees associated with campsite reservation. *Pass/No Pass Only. Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 314.4 BACKPACKING FOR FITNESS IV

Designed to increase fitness and strength at an advanced level. Continuing exploration of many aspects of backpacking including Identification of necessary backpacking equipment and supplies, development of a trip plan, investigation and avoidance of potential safety risks, and completion of a safe overnight backpacking excursion. Students will be expected to pay fees associated with campsite reservation. *Pass/No Pass Only. Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 332.1 STRETCHING AND FLEXIBILITY I

A beginning class designed to increase flexibility, tone the body, improve circulation, teach proper breathing and relaxation, and create basic understanding of what is necessary for good health. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 332.2 STRETCHING AND FLEXIBILITY II

An intermediate level class designed to increase flexibility, tone the body, improve circulation, teach proper breathing and relaxation, and create basic understanding of what is necessary for good health. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 332.3 STRETCHING AND FLEXIBILITY III

An advanced intermediate level class designed to increase flexibility, tone the body, improve circulation, teach proper breathing and relaxation, and create basic understanding of what is necessary for good health. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 332.4 STRETCHING AND FLEXIBILITY IV

An advanced level class designed to increase flexibility, tone the body, improve circulation, teach proper breathing and relaxation, and create basic understanding of what is necessary for good health. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 334.1 YOGA I

Designed to educate students in Hatha Yoga at a beginning level. A fitness course using yoga postures to increase flexibility, strength and endurance; improve balance, posture and breathing; teach relaxation techniques. This course is appropriate for all ages and abilities. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 334.2 YOGA II

Designed to educate students in Hatha Yoga at an intermediate level. A fitness course using yoga postures to increase flexibility, strength and endurance; improve balance, posture and breathing; teach relaxation techniques. This course is appropriate for continuing yoga students. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 334.3 YOGA III

Designed to educate students in Hatha Yoga at an advanced intermediate level. A fitness course using yoga postures to increase flexibility, strength and endurance; improve balance, posture and breathing; teach relaxation techniques. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 334.4 YOGA IV

Designed to educate students in Hatha Yoga at an advanced level. A fitness course using yoga postures to increase flexibility, strength and endurance; improve balance, posture and breathing; teach relaxation techniques. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 335.1 PILATES I

Training of the muscles in the torso through controlled exercises taught at a beginning level designed to improve posture, coordination and balance; build core strength; and increase flexibility and agility. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 335.2 PILATES II

Training of the muscles in the torso through controlled exercises taught at an intermediate level designed to improve posture, coordination and balance; build core strength; and increase flexibility and agility. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 335.3 PILATES III

Training of the muscles in the torso through controlled exercises taught at an advanced intermediate level designed to improve posture, coordination and balance; build core strength; and increase flexibility and agility. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 335.4 PILATES IV

Training of the muscles in the torso through controlled exercises taught at an advanced level designed to improve posture, coordination and balance; build core strength; and increase flexibility and agility. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 400.1 FITNESS ACADEMY I

Various fitness activities designed to raise students' individual fitness levels. After assessment of the students' fitness levels through completion of division fitness tests, personal exercise regimens will be prepared for each student. Students must meet with the instructor for orientation. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1 - 3

Hours/semester: 48-162 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 400.2 FITNESS ACADEMY II

Building on concepts learned in FITN 400.1, students will participate in various fitness activities designed to raise their individual fitness levels. After assessment of the students' fitness levels through completion of division fitness tests, intermediate level personal exercise regimens will be prepared for each student. Students must meet with the instructor for orientation. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1 - 3

Hours/semester: 48-162 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 400.3 FITNESS ACADEMY III

Building on concepts from FITN 400.2, students will participate in various fitness activities designed to raise their individual fitness levels. After assessment of the students' fitness levels through completion of division fitness tests, advanced intermediate level personal exercise regimens will be prepared for each student. Students must meet with the instructor for orientation. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1 - 3

Hours/semester: 48-162 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

FITN 400.4 FITNESS ACADEMY IV

Building on concepts from FITN 400.3, students will participate in various fitness activities designed to raise their individual fitness levels. After assessment of the students' fitness levels through completion of division fitness tests, advanced level personal exercise regimens will be prepared for each student. Students must meet with the instructor for orientation. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1 - 3

Hours/semester: 48-162 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

Kinesiology - Individual Sports

See [repeatability statement](#) listed at the beginning of the Kinesiology (KINE) course listings for more information on limitations on the repetition of courses.

INDV 101.1 ARCHERY I

Introduction to target archery including technique practice and application, scoring at a beginning level, vocabulary, and care and selection of equipment. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

INDV 101.2 ARCHERY II

Continuing instruction in the sport of target archery. Includes further technique instruction, use of a bow sight, scoring, care of a bow and arrows, and vocabulary. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

INDV 101.3 ARCHERY III

Continuing instruction in the sport of target archery. Includes advanced intermediate technique and bow sight instruction, scoring, care of a bow and arrows, vocabulary and competition. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

INDV 101.4 ARCHERY IV

Continuing instruction in the sport of target archery. Includes advanced technique instruction, scoring, vocabulary and competition. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

INDV 121.1 BADMINTON I

Rules and beginning strategies of badminton; instruction and practice in fundamentals of grip, strokes, footwork, and court coverage, drills and competition, tournaments in singles and doubles. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-48 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

INDV 121.2 BADMINTON II

Rules and strategies of intermediate badminton; instruction and further practice in grips, strokes, footwork, and court coverage, drills and competition, tournaments in singles and doubles. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-48 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

INDV 121.3 BADMINTON III

Advanced intermediate instruction with an emphasis on strategy, footwork, doubles team work, and singles game. Tournament play in singles and doubles. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-48 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

INDV 121.4 BADMINTON IV

Advanced instruction with an emphasis on strategy, footwork, doubles team work, and singles game. Tournament play in singles and doubles. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

INDV 126 COED CLUB BADMINTON

Coed class which prepares students for badminton competition through drills and physical training. Limited to in-class competition. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-48 Lab

Prerequisites: INDV 121.1 or equivalent

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

INDV 160.1 GOLF I

Techniques, rules, etiquette, and strategy for beginning golf instruction. Practical experience associated with grip, stance, swings relative to iron and wood shots at a beginning level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-48 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

INDV 160.2 GOLF II

Technique, rules, etiquette, and strategy for intermediate golf instruction. Practical experience associated with grip, stance, swings relative to iron and wood shots at an intermediate level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-48 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

INDV 160.3 GOLF III

Technique, rules, etiquette, and strategy for advanced intermediate golf instruction. Practical experience associated with grip, stance, swings relative to iron and wood shots at an advanced intermediate level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-48 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

INDV 160.4 GOLF IV

Technique, rules, etiquette, and strategy for advanced golf instruction. Practical experience associated with grip, stance, swings relative to iron and wood shots at an advanced level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-48 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

INDV 251.1 TENNIS I

Instruction in the fundamental skills of the service, forehand and the backhand strokes; court strategy and the rules of play; testing program in all tennis skills and rules. Includes use of automatic ball machine. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

INDV 251.2 TENNIS II

Continued instruction in the fundamental skills of tennis. Emphasis will be placed on singles and doubles strategy including the essence of net play at the intermediate level. Forehand, backhand, and serve will be emphasized as offensive and defensive weapons. Competition will be included and tournaments will be held. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

INDV 251.3 TENNIS III

Continued instruction on the skills of tennis at the advanced intermediate level. Emphasis will be placed on singles and doubles strategy including net play. Forehand, backhand, and serve will be emphasized as offensive and defensive weapons. Competition will be included and tournaments will be held. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

INDV 251.4 TENNIS IV

Continued instruction on the skills of tennis at the advanced level. Emphasis will be placed on singles and doubles strategy including net play. Forehand, backhand, and serve will be emphasized as offensive and defensive weapons. Competition will be included and tournaments will be held. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

Kinesiology

The majority of courses offered by the San Mateo County Community College District are now leveled to show progression from the most fundamental (level 1) to the most advanced (level 4). Course levels can be identified by a .1, .2, .3, or .4 system or by the course title. Course levels may be scheduled simultaneously. Students are advised to enroll initially at the fundamental level (.1) regardless of previous experience and be placed at the appropriate level based on instructor assessment. Adapted Physical Education and intercollegiate sport related courses are not affected by the repeatability legislation.

Kinesiology and Dance activity courses are subject to repeatability limitations. Students are now limited to a maximum of four courses per family listed below. If there is more than one course in a particular family, a student may only enroll in a maximum of four total courses within that family. After four courses within a family have been taken, a student has the option to audit should they wish to continue enrolling in courses within that family. Students who audit do not count toward meeting local minimum enrollment requirements. Thus, a class may be cancelled if enough credit seeking students are not enrolled no matter how many students wish to audit. For information about how to audit, students should refer to the audit policy in the catalog.

A course previously taken by a student, prior to course leveling within the identified family will count as a repeat and limit future enrollments of courses within that family to a maximum of four combined. This limitation on enrollment applies to all coursework attempted by the student. For a list of "Families Across the District," see the Academic Standards section of this catalog. Students not having previously taken a Kinesiology or Dance activity course may have the opportunity to enroll in courses within a particular family for a maximum of four times.



KINE 100 INTRODUCTION TO KINESIOLOGY

Exploration of the broad spectrum of kinesiology as an academic discipline, fundamental concepts and meaning of movement/physical activity, diversity of humans as moving beings, professional/career options, current/social issues, personal characteristics/ professional responsibilities. NOTE: This course is not activity-based and is not applicable to the specific area requirement in Physical Education for the Associate Degree. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU, UC

C-ID: KIN 100

KINE 305 HEALTH-RELATED FITNESS AND WELLNESS

Teaches students to understand the need and assume the responsibility for maintaining a healthful lifestyle. Explores the role that regular exercise, healthy eating habits, and stress management play in the maintenance of health-related fitness and wellness over the lifespan. NOTE: This course is not activity-based and is not applicable to the specific area requirement in Physical Education for the Associate Degree. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Concurrent enrollment in any Skyline fitness-related activity course.

AA/AS Degree Requirements: Area 9E1

Transfer Credit: CSU (CSU GE Area E1), UC

KINE 510 SPORT, MOVEMENT AND FILM

Examination of how the cultural, political, psychological and historical dimensions of sport and other forms of movement are portrayed in feature films and documentaries. Representations of identity, power, performance, social justice, and the body are also analyzed. This course is not activity-based and is not applicable to the specific area requirement in Physical Education for the Associate Degree. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9D3

Transfer Credit: CSU (CSU GE Area D), UC

KINE 670 VOCATIONAL COOPERATIVE EDUCATION IN KINESIOLOGY

Students may receive credit for work experience related to their major field or to their established career goal. Seminars and individual conferences are scheduled at convenient times during the semester for the instructor and the student to establish learning objectives related to the student's employment. Students are given appropriate assignments related to the stated objectives and graded in accordance with the college's established grading system. As an alternative, related instruction classes meeting one hour per week, usually in the evening, are available for those students who prefer or need a more structured learning process. One unit of credit for each 75 hours worked per semester, with a maximum of four units per semester, may be earned by students with jobs related to their academic or occupational majors or goals. May be repeated for credit up to 16 units. This limitation applies to Occupational Cooperative Education work experience courses offered within the SMCCCD. *Pass/No Pass Only. Degree Credit.*

Units: 3

Hours/semester: 225 Work Experience

Prerequisites: Permission of the Cooperative Education Office, concurrent enrollment in a planned vocational program, and employment in a college-approved job directly related to the student's academic major.

Transfer Credit: CSU

KINE 695 INDEPENDENT STUDY IN KINESIOLOGY

Designed for students who are interested in furthering their knowledge via self-paced, individualized, directed instruction provided in selected areas to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

Kinesiology – Physical Education

See [repeatability statement](#) listed at the beginning of the Kinesiology (KINE) course listings for more information on limitations on the repetition of courses.

P.E. 105 THE STUDENT-ATHLETE EXPERIENCE

Examines the historical, sociological, health and compliance issues related to student athletes at the community college and university level. Includes topics such as gender issues, racism, and performance-enhancing drug use in sports. Students will be able to cite community college eligibility requirements and matriculation requirements upon completion of this course. Note: This course is not activity based and is not applicable to the specific area requirement in Physical Education for the Associate Degree. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

AA/AS Degree Requirements: Area 9E1

Transfer Credit: CSU (CSU GE Area E1), UC

P.E. 152 THEORY OF SPORT & FITNESS MANAGEMENT

Emphasizes basic management principles as they relate to the business of sport. Examines such topics as sport governance, facilities management, sports law, the economics of sport, and sports marketing. Will provide an overview of the many careers available in the sports management industry. Note: This course is not activity based and is not applicable to the specific area requirement in Physical Education for the Associate Degree. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

P.E. 211 PREVENTION AND CARE OF ATHLETIC INJURIES

Introduction to basic principles of prevention, assessment, treatment and rehabilitation of athletic injuries. This course applies basic principles of anatomy, physiology, pathology and biomechanics to athletic injuries. Note: This class is not activity-based and is not applicable to the specific area requirement in Physical Education for the Associate Degree. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Transfer Credit: CSU, UC

P.E. 301 INTRODUCTION TO PERSONAL TRAINING

Prepares students to take the National Council of Strength and Fitness Certified Personal Trainer exam. The study of basic human anatomy, exercise physiology, health screening and assessment, nutrition, aerobic and anaerobic conditioning. Note: This course is not activity-based and is not applicable to the specific area requirement in Physical Education for the Associate Degree. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

P.E. 302 INTRODUCTION TO SPORT NUTRITION

The study of the function of nutrients on human performance. The role of macronutrients (proteins, carbs, and fats), micronutrients (vitamins, minerals, and trace elements) and water in growth, development and body processes. Prepares students to take the National Council of Strength and Fitness Sport Nutrition exam. Note: This course is not activity-based and is not applicable to the specific area requirement in Physical Education for the Associate Degree. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU, UC

Kinesiology - Team Sports

See [repeatability statement](#) listed at the beginning of the Kinesiology (KINE) course listings for more information on limitations on the repetition of courses.

TEAM 100 MEN'S BASEBALL

Instruction and practice in the fundamentals of baseball; team competition; testing program in skills and rules. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 96-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC



TEAM 111.1 BASKETBALL I

Instruction at a beginning level in the rules, strategies and skills of basketball. Includes round-robin play during the last half of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 111.2 BASKETBALL II

Instruction at an intermediate level in the rules, strategies and skills of basketball. Includes round-robin play during the last half of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 111.3 BASKETBALL III

Instruction at an advanced intermediate level in the rules, strategies and skills of basketball. Includes round-robin play during the last half of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 111.4 BASKETBALL IV

Instruction at an advanced level in the rules, strategies and skills of basketball. Includes round-robin play during the last half of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 112 BASKETBALL: ADVANCED COMPETITION STRATEGIES

Designed for potential student-athletes to pursue advanced knowledge in philosophy, strategies, techniques, and

instruction in the competitive game of basketball. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 116 BASKETBALL: INDIVIDUAL SKILL DEVELOPMENT

Designed to improve the individual skills of students wishing to play competitive basketball. Fundamentals of the game: ball handling, passing and shooting. Numerous basketball and conditioning drills. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 117 TOURNAMENT BASKETBALL

Geared toward advanced level basketball players, this course is designed to give students competitive playing experience in a team, tournament setting. Students will learn both offensive and defensive concepts in a team setting. Tournament games will be officiated using NCAA rules and guidelines. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-48 Lab

Recommended: TEAM 111 or TEAM 112, TEAM 115 or TEAM 116 or competitive experience or equivalent.

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 132.1 FLAG FOOTBALL I

Provides beginning skills and competition in flag football, including catching skills and competition in flag football, including catching, running with the ball, strategies, blocking, and rules of the game. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 132.2 FLAG FOOTBALL II

Provides intermediate skills building and competition in flag football, including catching, running with the ball, strategies, blocking, and rules of the game. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 132.3 FLAG FOOTBALL III

Provides advanced intermediate skills building and competition in flag football, including catching, running with the ball, strategies, blocking, and rules of the game. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 132.4 FLAG FOOTBALL IV

Provides advanced skills building and competition in flag football, including catching, running with the ball, strategies, blocking, and rules of the game. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 141.1 SOCCER I

Instruction and practice in the fundamentals of individual and team play including, but not limited to, passing, receiving, dribbling, shielding, shooting and offensive / defensive systems at a beginning level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 141.2 SOCCER II

Instruction and practice in the fundamentals of individual and team play including, but not limited to, passing, receiving, dribbling, shielding, shooting and offensive /

defensive systems at an intermediate level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 141.3 SOCCER III

Instruction and practice in the fundamentals of individual and team play including, but not limited to, passing, receiving, dribbling, shielding, shooting and offensive / defensive systems at an advanced intermediate level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 141.4 SOCCER IV

Instruction and practice in the fundamentals of individual and team play including, but not limited to, passing, receiving, dribbling, shielding, shooting and offensive / defensive systems at an advanced level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 148.1 INDOOR SOCCER I

Designed to provide instruction and practice at a beginning level in the fundamentals of indoor soccer and Futsal, team competition, specialized tactics and beginning systems of play. Discussion of historical perspectives and social significance of indoor soccer and Futsal. Testing program in skills and laws of the game. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 148.2 INDOOR SOCCER II

Designed to provide instruction and practice at an intermediate level in the fundamentals of indoor soccer and Futsal, team competition, specialized tactics and beginning

systems of play. Discussion of historical perspectives and social significance of indoor soccer and Futsal. Testing program in skills and laws of the game. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 148.3 INDOOR SOCCER III

Designed to provide instruction and practice at an advanced intermediate level in the fundamentals of indoor soccer and Futsal, team competition, specialized tactics and beginning systems of play. Discussion of historical perspectives and social significance of indoor soccer and Futsal. Testing program in skills and laws of the game. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 148.4 INDOOR SOCCER IV

Designed to provide instruction and practice at an advanced level in the fundamentals of indoor soccer and Futsal, team competition, specialized tactics and beginning systems of play. Discussion of historical perspectives and social significance of indoor soccer and Futsal. Testing program in skills and laws of the game. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 179 TOURNAMENT VOLLEYBALL

Geared toward intermediate and advanced level volleyball players, this course emphasizes team play in a tournament setting. Includes an introduction to, and use of, different offensive and defensive systems. Tournament play will include 2-, 3-, 4-, and 6-person team play using international rules. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1

Hours/semester: 24-54 Lab

Recommended: TEAM 171 or equivalent.

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 188 VOLLEYBALL THEORY: DEFENSE

Fundamentals of playing and coaching volleyball. Students will gain knowledge about the history, philosophies, techniques and strategies related to the development of individual and team play in volleyball from a defensive perspective. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5 - 3

Hours/semester: 16-36 Lecture; 24-54 Lab; 32-72 Homework

Recommended: Concurrent enrollment in, VARS 340

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 189 VOLLEYBALL THEORY: OFFENSE

Offensive fundamentals of playing and coaching volleyball. Students will gain knowledge about the history, philosophies, techniques and strategies related to the development of individual and team play in volleyball from an offensive perspective. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5 - 3

Hours/semester: 16-36 Lecture; 24-108 Lab; 32-72 Homework

Recommended: VARS 340 Concurrent enrollment

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 190 BASEBALL THEORY: DEFENSE

Designed to help students understand the fundamentals of playing and coaching baseball from a defensive perspective. Students will gain knowledge about the history, philosophies, techniques and strategies related to the development of individual and team defensive play in baseball. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5 - 3

Hours/semester: 16-36 Lecture; 24-108 Lab; 32-72 Homework

Recommended: Concurrent enrollment in, TEAM 100 or VARS 100

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 191 BASEBALL THEORY: OFFENSE

Designed to help students understand the offensive fundamentals of playing and coaching baseball. Students will gain knowledge about the history, philosophies, techniques and strategies related to the development of individual and team offensive play in baseball. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5 - 3

Hours/semester: 16-18 Lecture; 24-108 Lab; 32-36 Homework

Recommended: Concurrent enrollment in, TEAM 100

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 192 MEN'S BASKETBALL THEORY: DEFENSE

Designed to help students understand the defensive fundamentals of playing and coaching basketball. Students will gain knowledge about the history, philosophies, techniques and strategies related to the development of individual and team play in basketball. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5 - 3

Hours/semester: 16-18 Lecture; 24-108 Lab; 32-36 Homework

Recommended: Concurrent enrollment in, VARS 110

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 193 MEN'S BASKETBALL THEORY: OFFENSE

Designed to help students understand the offensive fundamentals of playing and coaching basketball. Students will gain knowledge about the history, philosophies, techniques and strategies related to the development of individual and team play in basketball. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5 - 3

Hours/semester: 16-18 Lecture; 24-108 Lab; 32-36 Homework

Recommended: Concurrent enrollment in, VARS 110

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 194 WOMEN'S BASKETBALL THEORY: DEFENSE

Designed to help students understand the fundamentals of playing and coaching women's basketball. Students will gain knowledge about the history, philosophies, techniques

and strategies related to the development of individual and team play in women's basketball. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5 - 3

Hours/semester: 16-18 Lecture; 24-108 Lab; 32-36 Homework

Recommended: Concurrent enrollment in, VARS 300

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 195 WOMEN'S BASKETBALL THEORY: OFFENSE

Designed to help students understand the fundamentals of playing and coaching women's basketball. Students will gain knowledge about the history, philosophies, techniques and strategies related to the development of individual and team play in women's basketball. (May be taken four times for a maximum of 12 units.) *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5 - 3

Hours/semester: 16-18 Lecture; 24-108 Lab; 32-36 Homework

Recommended: Concurrent enrollment in, VARS 300

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 196 MEN'S SOCCER THEORY: DEFENSE

Designed to help students understand the fundamentals of playing and coaching soccer. Students will gain knowledge about the history, philosophies, techniques and strategies related to the development of individual and team defensive play in men's soccer. (May be taken four times for a maximum of 12 units.) *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5 - 3

Hours/semester: 16-18 Lecture; 24-108 Lab; 32-36 Homework

Recommended: Concurrent Enrollment in VARS 150

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 197 MEN'S SOCCER THEORY: OFFENSE

Designed to help students understand the fundamentals of playing and coaching men's soccer. Students will gain knowledge about the history, philosophies, techniques and strategies related to the development of individual and team offensive play in men's soccer. (May be taken four



times for a maximum of 12 units.) *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5 - 3

Hours/semester: 16-18 Lecture; 24-108 Lab; 32-36 Homework

Recommended: Concurrent enrollment in, VARS 150

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 198 WOMEN'S SOCCER THEORY: DEFENSE

Designed to help students understand the fundamentals of playing and coaching women's soccer. Students will gain knowledge about the history, philosophies, techniques and strategies related to the development of individual and team defensive play in soccer. (May be taken four times for a maximum of 12 units.) *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5 - 3

Hours/semester: 16-18 Lecture; 24-108 Lab; 32-36 Homework

Recommended: Concurrent enrollment in, VARS 360

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 199 WOMEN'S SOCCER THEORY, OFFENSE

Designed to help students understand the fundamentals of playing and coaching women's soccer. Students will gain knowledge about the history, philosophies, techniques and strategies related to the development of individual and team offensive play in women's soccer. (May be taken four times for a maximum of 12 units.) *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5 - 3

Hours/semester: 16-18 Lecture; 24-108 Lab; 32-36 Homework

Recommended: Concurrent enrollment in, VARS 360

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

TEAM 201 WRESTLING THEORY

Designed to help students understand the fundamentals of participating and coaching wrestling. By taking the course, students will gain knowledge about the history, philosophies, techniques and strategies related to the development of individual skills and strategies in wrestling. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5 or 3

Hours/semester: 16-18 Lecture; 24-108 Lab; 32-36 Homework

Recommended: Concurrent enrollment in VARS 200.

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

Kinesiology - Varsity Sports

Participation in varsity sports is limited to those who possess the necessary skill level to compete in intercollegiate athletics. Competition takes place against colleges of the Coast Conference and other northern and southern California Community Colleges. Athletes must be enrolled in 12 units during their first semester of competition (9 of which must be academic). Student-athletes must maintain a 2.0 grade point average and have passed a cumulative 24 units (18 of which must be academic) to qualify for their second season of the same sport. Student-athletes can only compete in two years of the same sport. Participants must pass a physical examination prior to being released to compete. See Athletic Director for more information.

VARS 100 VARSITY BASEBALL

Intercollegiate varsity baseball competition in the Coast Conference; tournaments and post-season competition with other California Community Colleges. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 175-196.88 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

VARS 110 MEN'S VARSITY BASKETBALL

Intercollegiate men's varsity basketball competition in the Coast Conference and participation in regional and state tournaments. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 100-112.5 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

VARS 150 MEN'S VARSITY SOCCER

Intercollegiate men's varsity soccer competition in the Coast Conference and participation in regional and state tournaments. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 175-196.88 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

VARS 200 VARSITY WRESTLING

Intercollegiate competition in dual matches in the Coast Conference; competition in several regional wrestling tournaments each year including Coast Conference matches, Northern California matches, and the State Championships. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 175-196.88 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

VARS 300 VARSITY WOMEN'S BASKETBALL

Intercollegiate women's varsity basketball competition in the Coast Conference and participation in regional and state tournaments. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 100-112.5 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

VARS 340 WOMEN'S VARSITY VOLLEYBALL

Includes competition with other Northern California community colleges. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 175-196.88 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

VARS 350 WOMEN'S VARSITY BADMINTON

Intercollegiate badminton competition with Northern California community colleges. Participation in the Coast Conference and regional tournaments. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 175 Other

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

VARS 360 WOMEN'S VARSITY SOCCER

Intercollegiate women's varsity soccer competition in the Coast Conference and participation in regional and state tournaments. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 175-196.88 Lab

AA/AS Degree Requirements: Area 7; Area 9E2

Transfer Credit: CSU (CSU GE Area E2), UC

Learning Skills

LSKL 109 SUPPLEMENTAL LEARNING ASSISTANCE FOR ELEMENTARY ALGEBRA

Supplementary learning assistance for students enrolled in Elementary Algebra to provide academic support that reinforces course content and bolsters academic skills. Under the supervision of qualified faculty members, individual and/or group instruction will be provided by supplemental instruction staff to improve students' academic skills. (Units do not count toward the Associate Degree.) *Pass/No Pass Only.*

Units: 0.5

Hours/semester: 24-27 Lab

Corequisites: MATH 110 or MATH 111 or MATH 112

LSKL 110 EFFECTIVE TUTORING AND PRACTICUM

Explores a variety of theoretical and practical teaching and learning strategies essential for planning, implementing, and evaluating effective peer-guided learning. Tutoring theory, best practices, communication and study strategies, course specific tutoring expertise, and techniques for working with students from diverse cultural and academic backgrounds are emphasized. Under guided supervision, students use class lessons and experiences to connect theory to practice. Upon completion of the course and 25 hours of guided tutoring experience, students are eligible for Level 1 CRLA ITTPC (International Tutor Training Program) Certification. Note: The one-unit version of the course does not contain the lab hours required for the ITTPC certification. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1 - 1.5

Hours/semester: 16-18 Lecture; -27 Lab; 32-36 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent. Completion of MATH 120, or MATH 122 and MATH 123, with a grade of C or better, or equivalent.

Transfer Credit: CSU

LSKL 800 SUPPLEMENTAL LEARNING ASSISTANCE

Students who need supplemental instruction in the course from which they are referred receive targeted academic support to reinforce course content and bolster academic skills. Students complete individualized learning activities in combination with academic tutoring to receive credit for this course. Under the supervision of qualified faculty members in the Learning Center, instructional aides and tutors provide individual and/or group instruction to improve learning in areas of assessed need. (Open entry.) (Units do not count toward the Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

Corequisites: Concurrent enrollment in the course for which the student needs academic support in order to succeed.

LSKL 803 SUPERVISED TUTORING ASSISTANCE

Students from referred courses will receive supplemental academic support to reinforce course content and bolster academic skills. Under the supervision of qualified faculty in the Learning Center, peer tutors will provide individual and/or group instruction to improve learning in areas of assessed need. (Open entry.) (Units do not count toward the Associate Degree.) *No Grade Awarded (Non-Credit Course). Non-Credit.*

Units: 0 or 0

Hours/semester: 24-162 Lab

Corequisites: Concurrent enrollment in the course for which the student needs academic support in order to succeed.

LSKL 811 SUPPLEMENTAL LEARNING ASSISTANCE FOR FUNDAMENTALS OF MATH

Designed for students who need Supplemental Learning Assistance in Fundamentals of Mathematics (MATH 811) to reinforce course content and bolster academic skills. Faculty, instructional aides, or peer tutors working under the supervision of qualified faculty members will provide individual and/or group instruction to improve learning in areas of assessed need. (Open entry.) (Not applicable to the Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 1

Hours/semester: 48-54 Lab

Corequisites: Concurrent enrollment in, MATH 811

LSKL 828 SUPPLEMENTAL LEARNING ASSISTANCE FOR BASIC WRITING SKILLS

Provides supplementary learning assistance to students enrolled in English 828 to reinforce course content and bolster academic skills. Faculty, instructional aides, or peer tutors working under the supervision of qualified faculty members will provide individual and/or group instruction to improve learning in areas of assessed need. (Units do not count toward the Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 0.5

Hours/semester: 24-27 Lab

Corequisites: Concurrent enrollment in, ENGL 828

LSKL 890 MATH JAM

Students who are preparing to take the math placement test or who need to improve their skills in math to succeed in an upcoming math course, receive academic support to reinforce course content and bolster academic skills. Under the supervision of qualified faculty members in the Learning Center, instructional aides or faculty will provide individual and/or group instruction to improve learning in areas of assessed need in mathematics. (Not applicable to the Associate Degree.) *No Grade Awarded (Non-Credit Course). Non-Credit.*

Units: 0

Hours/semester: 24-27 Lab

Legal Studies

See also listings under Paralegal Studies.

LGST 200 RESTORATIVE JUSTICE

Fundamental principles and processes of restorative justice and community corrections. Key topics include restorative justice as an alternative to current practices in the judicial and educational systems and the potential restorative justice presents for positive individual and community transformation. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU, UC

Literature

For information on the rotation of Literature courses, refer to the [Rotation of Literature Courses list](#) below the English (ENGL) Degree Listing.

LIT. 101 CONTEMPORARY LITERATURE

Read, interpret and analyze a representative selection of contemporary literary fiction, poetry and drama since WWII using some of the major theoretical approaches to literature. These readings offer not only a greater critical perspective and insight into contemporary history, but an enhanced understanding of ourselves within our own culture. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

LIT. 151 INTRODUCTION TO SHAKESPEARE

Study of representative plays and poems, with an emphasis on Shakespeare's poetic and dramatic skills and his understanding of human nature. Reading, discussion, critical papers. Students will understand Shakespeare's role in the development of English language and literature. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

LIT. 154 QUEER LITERATURE

A sociopolitical and cultural examination of the concerns of the gay, lesbian, bisexual, transgendered, bi-gendered, intersex, and queer communities in a range of historical periods and literary genres. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

LIT. 155 COMICS AND THE GRAPHIC NOVEL

Study of the history, structure, and content of the graphic novel, or comic book, a narrative form that blends literary and visual components. Includes analysis of primary sources and graphic novel criticism that explores the genre's cultural impact. Topics also may include fan culture, particular genres of comics, and connections between comics and other forms of visual text. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

LIT. 156 SCIENCE FICTION AND FANTASY LITERATURE

Study of representative works from the genres of Science Fiction and Fantasy, examining their roots, twentieth-century rise, and contemporary status. Includes analysis of primary sources and literary criticism as well as how the genres interact with mythology, philosophy, mass media, and popular culture. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU

LIT. 191 CHILDREN'S LITERATURE

An overview of the body of world literature deemed appropriate and enriching for children from infancy to adolescence. The course is designed to impart knowledge about and practice in storytelling techniques, as well as practical experience in presenting age-appropriate literature to children and youth. Theory and practice in discerning literary genres, criteria for selection, and techniques for using classic and contemporary literature with young people. Also listed as ECE. 191. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9C2



Transfer Credit: CSU (CSU GE Area C2)

LIT. 201 AMERICAN LITERATURE I

Study of American Literature from Native American narratives through the 19th century. Lectures, discussions, reading of primary and secondary works, and writing of critical papers. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: ENGL 130

LIT. 202 AMERICAN LITERATURE II

Study of American Literature from the mid 19th century to the present. Lectures, discussions, reading of primary and secondary works, and writing of critical papers. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: ENGL 135

LIT. 220 INTRODUCTION TO WORLD LITERATURE I

Study of representative works from the genres of selected works (poetry, prose, drama, and film), in translation and in English, of literature from around the world, including Europe, the Middle East, Asia, and other areas, from antiquity to the mid or late seventeenth century. Includes analysis of primary sources and literary criticism as well as how the genre interacts with mythology, philosophy, mass media, and popular culture. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: ENGL 140

LIT. 221 INTRODUCTION TO WORLD LITERATURE II

Study of representative works from the genres of selected works (poetry, prose, drama, and film), in translation and in English, of literature from around the world, including Europe, the Middle East, Asia, and other areas, from the mid or late seventeenth century to the present. Includes analysis of primary sources and literary criticism as well as how the genre interacts with mythology, philosophy, mass media, and popular culture. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: ENGL 145

LIT. 231 SURVEY OF BRITISH LITERATURE I

Study of the typical works of major British writers from the 8th to the 18th Century. Lectures, discussions, related readings, and writing of critical papers. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: ENGL 160

LIT. 232 SURVEY OF BRITISH LITERATURE II

Study of the typical works of major British writers from the 19th Century to the present. Lectures, discussions, related readings, and writing of critical papers. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: ENGL 165

LIT. 251 WOMEN IN LITERATURE

A study of the historical, sociopolitical, and cultural concerns of women as these appear in novels, short stories, and poetry. A glimpse into the struggle for self-identity and the forces that interact in the course of this struggle. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

LIT. 265 ASIAN AMERICAN LITERATURE

A survey of Asian American literature will acquaint students with the distinct literary and aesthetic qualities and the personal and cultural concerns of American writers of Asian descent. Authors may include Chinese Americans, Japanese Americans, Vietnamese Americans, Pacific Islanders, Korean Americans, Southeast Asian Americans, and Indian Americans. Material will be presented in a variety of genres. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

LIT. 266 BLACK LITERATURE

A survey of Black American literature from 1619 to the present. Literature, such as autobiographical works, poetry, short stories, drama, folk tales, novellas, and novels, will be included to introduce and explore the qualities of Black American writing. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

LIT. 267 FILIPINO AMERICAN LITERATURE

A survey of Filipino American writing of the twentieth and twenty-first century will acquaint students with the issues that these American writers of Filipino descent address

as they move between different societies. The literature reflects the unique background of shared language and history, as well as the contrasts between the cultures of the Philippines and the United States. Material will be presented in a variety of genres. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

LIT. 277 FILM AND LITERATURE

Comparative study of film and literature, studying and analyzing the relationships between the two media according to genre, topic, and style. Focus on film adaptations of novels, authors and directors, genres, international works, period pieces, etc. Topic varies with each semester offering. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC

LIT. 370 READINGS IN LITERATURE OF THE LATINO IN THE UNITED STATES

A study of the historical, sociopolitical, and cultural concerns of Latinos in the U.S. as these appear in novels, short stories, and poetry. A glimpse into the struggle for self-identity and the forces that interact in the course of this struggle. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

LIT. 432 FOLKLORE

A lively study of folk tales, legends, beliefs, superstitions, proverbs, mythology, folk life, folk speech, folk songs, lyrics, folk epics, and their influence in the literature and culture



that form our heritage. Special attention will be given to folklore of various racial and ethnic groups that mold American society. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

Management

See also listings under Business.

MGMT 100 INTRODUCTION TO BUSINESS MANAGEMENT

An introduction to successful management strategies and tactics that focus on the most important areas for business today: planning, organizing, motivating, leading, and controlling. The course emphasizes the roles and responsibilities of the management team in all sizes and types of businesses. The course will include a discussion of ethical considerations in terms of social and environmental impacts of business. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

MGMT 450 FUNDAMENTALS OF CONSTRUCTION MANAGEMENT

Introductory survey of basic concepts in construction management, including: industry overview, construction phases, project participant roles, estimation, bidding and contracts, licensing and legal issues, construction documents and office procedures, insurance and financing, construction accounting, project scheduling, project controls, construction project management software, safety concerns and issues, and leadership and supervisory/employee relationships. Also listed as ESTM 450. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. MATH 811 or equivalent.

Transfer Credit: CSU

MGMT 452 OSHA 10 CONSTRUCTION INDUSTRY TRAINING

Occupational Safety and Health Administration (OSHA) Standards, policies, and procedures in the construction industry. Topics include scope and application of the OSHA Construction Standards, construction safety and health principles, and special emphasis on those areas in construction which are most hazardous. Upon course completion students will have the ability to define construction terms found in the OSHA Construction Standards, identify hazards which occur in the construction industry, locate and determine appropriate OSHA Construction Standards, policies, and procedures, and describe the use of the OSHA Construction Standards and regulations to supplement an ongoing safety and health program. Also listed as ESTM 452. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

MGMT 455 PROJECT MANAGEMENT SITE EXPLORATION

Project management site exposure and perspective by visiting active construction worksites and engaging with construction management professionals in the field. Students will be exposed to a variety of construction projects so they may better understand the types of construction and the management methods employed. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5

Hours/semester: 24-27 Lab

Prerequisites: MGMT 450 or ESTM 450 or equivalent.

Mathematics

Students are encouraged to take the Math placement tests prior to initial placement in courses. Math placement tests are given to students to assist the counselor and the division in guiding them to the appropriate Math course. Proper placement in Math assures that students will begin their college studies in courses where they will have the best chance of success. Initial placement in classes is recommended on the basis of test scores. The tests are given on announced dates throughout the year. The normal sequence of courses for Mathematics majors is 110, 115, 120, 130, 222, 251, 252 and 253. All students are encouraged to meet with a counselor to determine the correct sequence of Math classes for all majors.

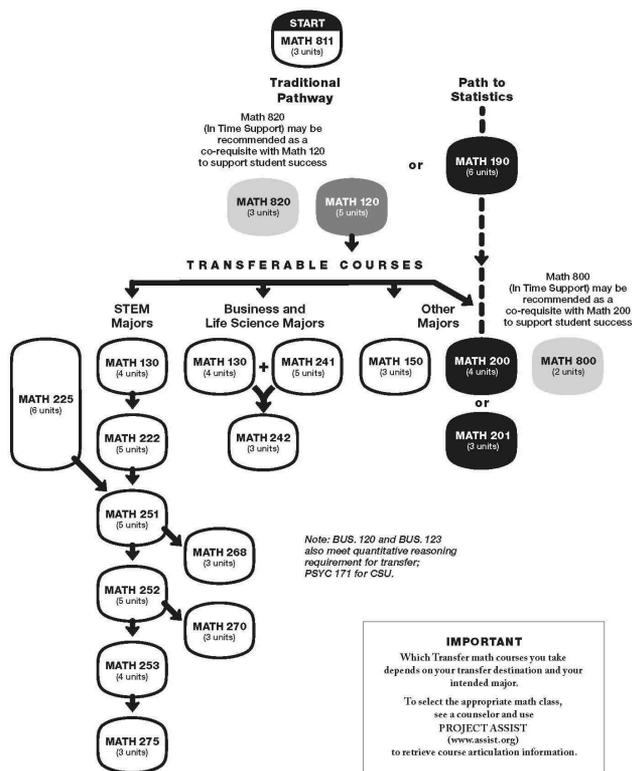
Prerequisites for the various courses are detailed in the descriptions that follow. Questions regarding equivalency of

courses, transfer credit, and the like should be referred to the Division Dean.

Mathematics courses may require a minimum of one hour by arrangement per week in addition to class hours.

Math Placement

Students may use a variety of measures for appropriate placement in the Math sequence. e.g., AP, Math Calculus Test, Early Assessment Program (EAP), High School Transcripts, Guided Placement, ALEKS assessment. See a counselor for more information.



For more details about this chart please contact the Math Department at <http://www.skylinecollege.edu/mathematics/index.php>

MATH 110 ELEMENTARY ALGEBRA

An introduction to elementary algebra emphasizing basic algebra concepts and those skills necessary to apply the concepts to real life problem solving. Topics will provide an introduction to symbol manipulation, and the analytical methods for solving applications problems appropriate to the introductory level. A core of mathematical topics including: real numbers, order of operations, linear equations and graphs, and systems of linear equations will be presented. A TI graphing calculator is required for the course. (Units do not count toward the Associate Degree.) *Letter Grade Only. Units do not apply toward AA/AS degree.*

Units: 5

Hours/semester: 80-90 Lecture; 16-18 TBA; 144-162 Homework

Prerequisites: MATH 811 or appropriate placement test score and other measures as appropriate, or equivalent.

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

MATH 111 ELEMENTARY ALGEBRA I

An introduction to elementary algebra emphasizing basic algebraic concepts. Topics will provide an introduction to symbol manipulation, and the analytical methods for solving applications problems appropriate to the introductory level. A core of mathematical topics, including: real numbers, order of operations, linear equations and graphs. A TI graphing calculator is required for the course. This course is equivalent to the first half of MATH 110 – Elementary Algebra. (Units do not count toward the Associate Degree.) *Letter Grade Only.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 811 or appropriate placement test score and other measures as appropriate, or equivalent.

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

MATH 112 ELEMENTARY ALGEBRA II

An introduction to elementary algebra emphasizing basic algebraic concepts. Topics will provide an introduction to symbol manipulation, and the analytical methods for solving applications problems appropriate to the introductory level. A core of mathematical topics, including: real numbers, order of operations, linear equations and graphs. A TI graphing calculator is required for the course. This course is equivalent to the second half of MATH 110 – Elementary Algebra. (Units do not count toward the Associate Degree.) *Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 111 or appropriate placement test score and other measures as appropriate, or equivalent.

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

MATH 115 GEOMETRY

A study of Euclidean geometry with aspects of analytic geometry covering plane and solid figures, the Cartesian coordinate system and using formal logic. *Letter Grade Only.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Prerequisites: MATH 110 or MATH 112 or appropriate placement test score and other measures as appropriate or equivalent.

AA/AS Degree Requirements: Area 9B1

MATH 120 INTERMEDIATE ALGEBRA

Extension of fundamental algebraic concepts and operations, solutions of linear and quadratic equations, individually and in systems, logarithms, exponentials, radical equations, rational equations, complex numbers, and an extension of the concepts of functions. An emphasis on modeling real life situations. A TI-83, 83+, 84, or 84+ graphing calculator is required for the course. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 16-18 TBA; 144-162 Homework

Prerequisites: MATH 110 or MATH 112 or appropriate placement test score and other measures as appropriate, or equivalent.

AA/AS Degree Requirements: 3b; Area 9B1

MATH 122 INTERMEDIATE ALGEBRA I

This course will cover all materials from MATH 120 in conjunction with MATH 123. Extension of fundamental algebraic concepts and operations, solutions of linear and quadratic equations, individually and in systems, logarithms, exponentials, radical equations, rational equations, complex numbers, and an extension of the concepts of functions. An emphasis on modeling real life situations. A TI-83, 83+, 84, or 84+ graphing calculator is required for the course. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16 Other; 96-108 Homework

Prerequisites: MATH 110 or MATH 112 or appropriate placement test score and other measures as appropriate, or equivalent.

AA/AS Degree Requirements: Area 9B1

MATH 123 INTERMEDIATE ALGEBRA II

This course will cover all materials from MATH 120 in conjunction with MATH 122. Extension of fundamental algebraic concepts and operations, solutions of linear and quadratic equations, individually and in systems, logarithms, exponentials, radical equations, rational equations, complex numbers, and an extension of the concepts of functions. An emphasis on modeling real life situations. A TI-83, 83+, 84, or 84+ graphing calculator is required for the course. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; Other; 80-90 Homework

Prerequisites: MATH 122 or equivalent.

AA/AS Degree Requirements: Area 9B1

MATH 130 TRIGONOMETRY

Trigonometric functions of real numbers and angles; solution of triangles; radian measure; graphs of trigonometric functions; trigonometric equations and identities; inverse trigonometric functions; complex numbers; applications of trigonometry. A TI-83, 83+, 84, or 84+ graphing calculator is required for the course. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 16-18 TBA; 112-126 Homework

Prerequisites: MATH 120 or MATH 123 or appropriate placement test score and other measures as appropriate, or equivalent.

Recommended: MATH 115 or equivalent.

AA/AS Degree Requirements: 3b; Area 9A3

Transfer Credit: CSU (CSU GE Area B4)

MATH 150 MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS

Intended for future elementary school teachers. Topics include basic set theory, elementary number theory, numeration, number systems and operations, and problem solving techniques associated with the real number system. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 120 or MATH 123 or appropriate placement test scores and other measures as appropriate, or equivalent.

AA/AS Degree Requirements: 3b; Area 9B1

Transfer Credit: CSU (CSU GE Area B4), UC

C-ID: MATH 120

MATH 190 PATH TO STATISTICS

An accelerated course to prepare students for transfer-level Statistics (MATH 200), Quantitative Reasoning (MATH 201), and Quantitative Reasoning in Psychology (PSYC 171). It covers core concepts from elementary algebra, intermediate algebra, and descriptive statistics. Topics include ratios, rates, and proportional reasoning; arithmetic reasoning using fractions, decimals and percents;

evaluating expressions, solving equations, analyzing algebraic forms to understand statistical measures; use of linear, quadratic, absolute value, exponential, and logarithmic functions to model bivariate data; graphical and numerical descriptive statistics for quantitative and categorical data. This course is designed for students who do not want to major in fields such as math, science, computer science, and business. Note: This course is NOT intended for students who plan to study science, technology, engineering, math, as well as business and other non-STEM majors. Students are advised to meet with a counselor to discuss whether placement in this class is appropriate for their intended major. *Letter Grade Only. Degree Credit.*

Units: 6

Hours/semester: 96-108 Lecture; 192-216 Homework

Prerequisites: MATH 811 or appropriate score on District math placement test and other measures as appropriate.

MATH 200 ELEMENTARY PROBABILITY & STATISTICS

Basic concepts underlying statistical methods and covers descriptive statistics, probability, probability distributions, hypothesis testing, estimates and sample sizes, correlation and regression, chi-square tests, and analysis of variance. Computer analysis of statistical data is integrated into the course. Applications of statistics to business, life sciences and other areas are included. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 16-18 TBA; 112-126 Homework

Prerequisites: MATH 120 or MATH 123 or MATH 190 or appropriate placement test score and other measures as appropriate, or equivalent.

AA/AS Degree Requirements: 3b; Area 9A3

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

C-ID: MATH 110

MATH 201 MATH IN SOCIETY

Development of the necessary concepts and skills for reasoning logically and quantitatively and applies these concepts to practical, real-life situations. Topics include: number systems, logic, geometry, probability and statistics, linear and exponential modeling. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Prerequisites: MATH 120 or MATH 123 or MATH 190 or appropriate placement test score and other measures as appropriate, or equivalent.

AA/AS Degree Requirements: 3b; Area 9B1

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

MATH 222 PRECALCULUS

Functional and graphing approach to the concepts and skills necessary as background for success in Calculus. Study of more advanced algebra, including logic, theory of equations, translation, rotation and composition approach to graphing, exponential and logarithmic functions, conic sections and a brief review of trigonometry. *Letter Grade Only.*

Units: 5

Hours/semester: 80-90 Lecture; 16-18 TBA; 144-162 Homework

Prerequisites: MATH 130 or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

MATH 225 FAST TRACK TO CALCULUS

Equivalent to MATH 130 and 222. This accelerated course combines the topics of Trigonometry and Pre-Calculus and is designed to fulfill the requirements of both courses in a single course. Topics include a study of functions, function families, their properties and transformations, compositions, inverses and combinations, complex numbers, and vectors. Function families include linear, trigonometric, logarithmic, exponential, polynomial, power, and rational. Multiple representations of functions are emphasized. *Letter Grade Only. Degree Credit.*

Units: 6

Hours/semester: 80-90 Lecture; 48-54 Lab; 160-180 Homework

Prerequisites: MATH 120 or MATH 123 or appropriate score on the District math placement test and other measures as appropriate.

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

MATH 241 APPLIED CALCULUS I

Basic techniques of differential and integral calculus of functions of one variable, including polynomial, rational, exponential, logarithmic and exponential functions. Selected topics from applications in analytic geometry, limits, differentiation, applications of the derivative, and applications of the integral. A TI-83, 83+, 84, or 84+ graphing calculator is required for the course. *Letter Grade Only. Degree Credit.*



Units: 5

Hours/semester: 80-90 Lecture; 16-18 TBA; 144-162 Homework

Prerequisites: MATH 120 or MATH 123 or appropriate placement test score and other measures as appropriate, or equivalent.

AA/AS Degree Requirements: 3b; Area 9A3

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

MATH 242 APPLIED CALCULUS II

Basic techniques of integral calculus. The definition, calculation, and application of the integral. Logarithmic, exponential, and trigonometric functions. Partial derivatives, multiple integrals, differential equations, and Taylor Series. A TI-83, 83+, 84, or 84+ graphing calculator is required for the course. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Prerequisites: MATH 130 and MATH 241 or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

MATH 243 BUSINESS CALCULUS II WITH TRIGONOMETRY

The second half of a two-semester calculus sequence designed for business and applied science majors. Topics include the integral, techniques of integration, an introduction to trigonometry, multivariable calculus, and differential equations. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Prerequisites: MATH 241 or equivalent.

Transfer Credit: CSU

MATH 251 CALCULUS WITH ANALYTIC GEOMETRY I

The study of limits and continuity, the derivative, applications of the derivative, the definite integral, and the fundamental theorem of calculus. Primarily for science, technology, engineering, and math majors. Note: TI-83 or TI-84 Graphing Calculator required. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 16-18 TBA; 144-162 Homework

Prerequisites: MATH 222 or MATH 225 or appropriate placement test score and other measures as appropriate, or equivalent.

AA/AS Degree Requirements: Area 9A3

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

C-ID: MATH 210

MATH 252 CALCULUS WITH ANALYTIC GEOMETRY II

The study of applications of the definite integral, techniques of integration involving polynomial, rational, trigonometric, inverse trigonometric, exponential, and logarithmic functions, vectors, differentiation and integration of functions in polar coordinates and parametric form, analysis of sequences, series, and power series, including differentiation and integration of power series, Taylor series, and Fourier series. Note: TI-83 or TI-84 Graphing Calculator required. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 16-18 TBA; 144-162 Homework

Prerequisites: MATH 251 or equivalent.

AA/AS Degree Requirements: Area 9A3

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

C-ID: MATH 220

MATH 253 CALCULUS WITH ANALYTIC GEOMETRY III

The study of vector valued functions, sequences and series, Taylor's formula, multivariable functions, differential calculus and integral calculus of multivariable functions, line and surface integrals and differential equations, Green's Theorem, Stokes' Theorem, divergence theorem. Note: TI-83 or TI-84 Graphing Calculator required. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 16-18 TBA; 144-162 Homework

Prerequisites: MATH 252 or equivalent

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

C-ID: MATH 230

MATH 270 LINEAR ALGEBRA

The study of systems of linear equations, the algebra of matrices, determinants, vector spaces, linear transformations, the algebra of linear transformations

with an introduction to dual spaces, eigenvalues and eigenvectors, and the applications of vectors and matrices to linear equations and linear transformations. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Prerequisites: MATH 252 or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

C-ID: MATH 250

MATH 275 ORDINARY DIFFERENTIAL EQUATIONS

The first course in ordinary differential equations including quantitative and qualitative methods including a variety of applications from many disciplines. Theoretical aspects of differential equations including existence of solutions and techniques for finding solutions including series solutions, singular points, linear systems, nonlinear systems, dynamical systems, Laplace transforms and operator techniques. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Prerequisites: MATH 253 or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

MATH 650 MATHEMATICS SUPPLEMENT

Based on individual needs, students will have directed learning experiences to improve their mathematical skills which will promote mastery of skills necessary for success in college level mathematics and science courses. These supplementary lessons will be arranged and supervised in the Math Assistance Lab of The Learning Center. Class hours are devoted to work on specific content areas as prescribed for the individual student. (Open entry.) (Units do not count toward the Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 0.5 - 2

Hours/semester: 24-108 Lab

MATH 670 VOCATIONAL COOPERATIVE EDUCATION IN MATHEMATICS

Students may receive credit for work experience related to their major field or to their established career goal. Seminars and individual conferences are scheduled at convenient times during the semester for the instructor

and the student to establish learning objectives related to the student's employment. Students are given appropriate assignments related to the stated objectives and graded in accordance with the college's established grading system. As an alternative, related instruction classes meeting one hour per week, usually in the evening, are available for those students who prefer or need a more structured learning process. One unit of credit for each 75 hours worked per semester, with a maximum of four units per semester, may be earned by students with jobs related to their academic or occupational majors or goals. May be repeated for credit up to 16 units. This limitation applies to Occupational Cooperative Education work experience courses offered within the SMCCCD. *Pass/No Pass Only.*

Units: 1

Hours/semester: 75 Work Experience

Prerequisites: Permission of the Cooperative Education Office, concurrent enrollment in a planned vocational program, and employment in a college-approved job directly related to the student's academic major.

Transfer Credit: CSU

MATH 800 JUST-IN-TIME SUPPORT FOR ELEMENTARY PROBABILITY & STATISTICS

A review of the core prerequisite skills, competencies, and concepts needed in statistics. Intended for students who are concurrently enrolled in MATH 200, Elementary Statistics, at Skyline College. Topics include concepts from arithmetic, pre-algebra, elementary and intermediate algebra, and descriptive statistics that are needed to understand the basics of college-level statistics. Concepts are taught through the context of descriptive data analysis. Additional emphasis is placed on solving and graphing linear equations and modeling with linear functions. (Units do not count toward Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Corequisites: MATH 200

MATH 811 FUNDAMENTALS OF MATHEMATICS

Emphasis on basic skills in mathematics including operations on whole numbers and rational numbers. Applications of these operations will be stressed. (Units do not count toward the Associate Degree.) *Letter Grade Only. Units do not apply toward AA/AS degree.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework



MATH 819 MATHEMATICS DEVELOPMENT

This course prepares students for college-level Mathematics. Topics include whole numbers, decimals, fractions, percents, ratio and proportion, measurement, geometry, statistics, introductory symbolic manipulation, order of operations and analytic methods for solving linear applications. Course emphasis will be on using these ideas and skills to solve problems from everyday life. Students will be required to complete individual and collaborative work with assignments both in-class, outside class. Students will be required to use tutoring facilities for assignments as well. Note: This course does not replace any course in Skyline College's required course sequence based on placement testing. (Units do not count toward the Associate Degree.) *Letter Grade Only. Units do not apply toward AA/AS degree.*

Units: 3**Hours/semester:** 48-54 Lecture; 16-18 Lab; 96-108 Homework**MATH 820 JUST-IN-TIME SUPPORT FOR INTERMEDIATE ALGEBRA**

A review of the core prerequisite skills, competencies, and concepts for intermediate algebra. Intended for students who are concurrently enrolled in MATH 120, Intermediate Algebra, at Skyline College. Review topics include: computational skills developed in prealgebra, the vocabulary of algebra, translation from English to algebra, and evaluation of literal expressions and functions. Topics covered in more depth include: solving and graphing linear equations and inequalities in one and two variables, solving and graphing systems of equations in two variables, factoring, algebraic operations on polynomial and rational expressions, solving quadratics using factoring, and rational equations. Recommended for students with little or no recent knowledge of algebra. A graphing calculator is required for this course. (Units do not count toward the Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 3**Hours/semester:** 48-54 Lecture; 96-108 Homework**Corequisites:** MATH 120**MATH 841 JUST-IN-TIME SUPPORT FOR APPLIED CALCULUS I**

A review of the core prerequisite skills, competencies, and concepts needed in college algebra. Intended for majors in science, technology, engineering, and mathematics who are concurrently enrolled in MATH 241, Applied Calculus I, at Skyline College. Topics include: a review of computational skills developed in intermediate algebra,

factoring, operations on rational and radical expressions, absolute value equations and inequalities, exponential and logarithmic expressions and equations, conic sections, functions including composition and inverses, and an in-depth focus on quadratic functions. Appropriate for students who are confident in their graphing and beginning algebra skills. A graphing calculator is required. (Units do not count toward the Associate Degree.) *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 2**Hours/semester:** 32-36 Lecture; 64-72 Homework**Corequisites:** MATH 241**Medical Assisting****MEDA 415 LAW AND ETHICS FOR ALLIED HEALTH PROFESSIONALS**

Legal relationships of physicians and patients, contractual agreements, professional liability, malpractice, medical practice acts, informed consent, and bio-ethical issues. Emphasis is placed on legal terms, professional attitudes, and the principles and basic concepts of ethics and laws involved in providing medical services for the allied health professional. *Letter Grade Only. Degree Credit.*

Units: 2**Hours/semester:** 32-36 Lecture; 64-72 Homework**Recommended:** Eligibility for ENGL 846 or ESOL 400, or equivalent.**Transfer Credit:** CSU**MEDA 484 MEDICAL TERMINOLOGY**

Designed to give students a basic background in medical terminology as used by medical transcriptionists, court reporters, law related occupations, and allied health occupations. The prefixes, roots, and suffixes of commonly used medical words are presented. Proper names of anatomical structures and their relationship to each other are covered by body system. Also listed as HSCI 484. *Letter Grade Only. Degree Credit.*

Units: 3**Hours/semester:** 48-54 Lecture; 96-108 Homework**Recommended:** Eligibility for ENGL 846 or ESOL 400, or equivalent.**Transfer Credit:** CSU

Music

The courses of the Music Department are specifically designed to fill the needs of the beginner in music, those who are seeking a career in the music business, those who are preparing to transfer to a university, those who want to teach music, and those who simply want to enhance their musical enjoyment.

Students may be asked to audition or test for placement in sequential courses.

Music activity courses are subject to repeatability limitations. Students are now limited to a maximum of four courses per family. A family of courses may contain more than four courses. If there are more than four courses in a particular family, a student may only enroll in a maximum of four total courses within that family. A course previously taken by a student (prior to the legislation) within the identified family will count as a repeat and limit future enrollments of courses within that family to a maximum of four.

Music activity courses are offered in levels by progression. Courses are listed by title; for example, Piano, Guitar, etc., and then by level. Level I is beginning; Level II is intermediate; Level III is intermediate/ advanced; and Level IV is advanced. The course number also indicates the level. For example, a beginning Piano class would be listed as MUS. 301.1, Piano I while an advanced Piano class would be MUS. 301.4, Piano IV.

New students are advised to enroll in the beginning level and be placed by their instructor upon assessment. Continuing students who have previously taken a course within a family, must progress to the next level.

MUS. 100 FUNDAMENTALS OF MUSIC

How to read music notes, rhythms, key signatures, scales, and chords; occasional concert attendance may be required. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

C-ID: MUS 110

MUS. 105 MUSIC THEORY I

Extended practice in and application of written music theory skills incorporating and developing music fundamentals. Through guided composition and analysis, students begin study of functional tonal harmony. Topics include chord function theory, phrase structures and cadences, two-voice counterpoint, and four-part voice leading principles. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MUS. 100 or MUS. 301 or MUS. 377 or MUS. 401 or equivalent.

Recommended: Concurrent enrollment in MUS. 111.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC

C-ID: MUS 120

MUS. 106 MUSIC THEORY II

Incorporates and builds on concepts introduced in MUS 105. Through four-part chorale writing, analysis and music composition, students continue studies in functional tonal harmony. Topics include: non-dominant seventh chords, III and VII chords, diatonic sequences, applied chords, diatonic modulation and formal analysis of binary and ternary forms. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MUS. 105 or equivalent.

Recommended: Concurrent enrollment in, MUS. 112

Transfer Credit: CSU, UC

C-ID: MUS 130

MUS. 107 MUSIC THEORY III

Incorporates and builds on concepts introduced in MUS. 106. Through four-part chorale writing, analysis and music composition, students continue studies in functional tonal harmony. Topics include: introduction to advanced chromatic harmony; secondary/applied chords; modulation; borrowed chords; introduction to Neapolitan and augmented-sixth chords. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MUS. 106 or equivalent.

Recommended: Concurrent enrollment in, MUS. 113

Transfer Credit: CSU, UC

C-ID: MUS 140

MUS. 108 MUSIC THEORY IV

Incorporates and builds on concepts introduced in MUS. 107. Through four-part chorale writing, analysis and music composition, students study late-Romantic techniques such as borrowed chords and modal mixture, chromatic mediant, Neapolitan and augmented-sixth chords, 9th,

11th and 13th chords, altered chords, and enharmonic modulation. Through analysis and music composition, students study twentieth-century techniques such as: Impressionism, tone rows, set theory, pandiatonicism and polytonalism, and advanced approaches to meter and rhythm. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MUS. 107 or equivalent.

Recommended: Concurrent enrollment in, MUS. 114

Transfer Credit: CSU, UC

C-ID: MUS 150

MUS. 111 MUSICIANSHIP I

Extended practice and application of rhythmic, melodic and harmonic materials of Music Theory I through ear training, sight singing, analysis, and dictation skills. Topics include: tonality, meter, rhythmic and pitch notation, intervals, triads. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: MUS. 100 or MUS. 301 or MUS. 377 or MUS. 401 or equivalent.

Recommended: Concurrent enrollment in, MUS. 105

Transfer Credit: CSU, UC

C-ID: MUS 125

MUS. 112 MUSICIANSHIP II

Incorporates and builds on concepts introduced in MUS. 111. Further development of ear training and sight singing skills. Topics include: sight singing of triads and seventh chords, second-layer subdivision, and harmonic dictation of diatonic progressions. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: MUS. 111 or equivalent.

Recommended: Concurrent enrollment in, MUS. 106

Transfer Credit: CSU, UC

C-ID: MUS 135

MUS. 113 MUSICIANSHIP III

Incorporates and builds on concepts introduced in MUS. 112. Further development of ear training and sight singing skills. Topics include: triplets/duplets, syncopations, chromatic alterations, and modulation to closely-related keys. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: MUS. 112 or equivalent.

Recommended: Concurrent enrollment in MUS. 107.

Transfer Credit: CSU, UC

C-ID: MUS 145

MUS. 114 MUSICIANSHIP IV

Incorporates and builds on concepts introduced in MUS. 113. Further development of ear training and sight singing skills. Topics include: advanced chromaticism including modulation to distantly-related keys, diatonic modes, non-diatonic and synthetic scales, pitch sets and tone rows, irregular beat division, polyrhythms, asymmetrical meters, mixed meters. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: MUS. 113 or equivalent.

Recommended: Concurrent enrollment in MUS. 108.

Transfer Credit: CSU, UC

C-ID: MUS 155

MUS. 115 MUSIC, ART AND IDEAS

An integrated consideration of art and music as reflections of the philosophies and traditions of cultures. The understanding of the various elements common to the creative efforts of art and music are emphasized as a means to enhance and extend a student's recognition, involvement, and ultimately, appreciation of these efforts. Diverse media are examined to demonstrate the realizations of ideas into works of art and music. *Pass/No Pass Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

MUS. 202 MUSIC APPRECIATION

Learn effective music listening skills to enhance musical enjoyment. Learn musical terms and devices and apply to various styles of music such as popular, folk, classical, and jazz. Consider the different meanings music can have in history, ritual, entertainment, film and other contexts. Concert attendance may be required. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

C-ID: MUS 100

MUS. 204 MUSIC HISTORY

A guided tour through the history of the music of Western Civilization with the aim of broadening and deepening student awareness and appreciation of changing modes of musical expression across the centuries. Covers Medieval, Renaissance, Baroque, Classical, Romantic, Modern, and Popular music genres. Concert attendance may be required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

MUS. 205 HISTORY, THEORY AND PRACTICE: PIANO AND THE KEYBOARD

An introductory exploration of piano and keyboard music in Western classical and popular music cultures, with a focus on historical context, music theory, and beginning piano literature. Students will develop critical thinking skills through exploration of cultural and historical contexts that influenced the creation of specific genres and/or pieces of keyboard music. In addition, students will learn beginning piano performance skills for a "hands on" experience of the traditions they explore, with an emphasis on creative problem solving skills. Concert attendance may be required. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 40-45 Lecture; 24-27 Lab; 80-90 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C1)

MUS. 250 WORLD MUSIC

Survey of selected listening and readings from the music of India, China, Japan, Korea, Indonesia, Pacific Islands,

Americas, Africa, and Middle East. A variety of media, guest speakers, and/or performers may be included. Required concert attendance. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

MUS. 275 HISTORY OF JAZZ

Understanding and enjoying music by studying the historical development of jazz from a musical and sociological perspective. Topics include discussion of musical elements, vocal and instrumental ensembles, artistic values, and the role of jazz in our culture. Concert attendance may be required. Partially fulfills general education requirement for the Humanities. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC

MUS. 276 HIP HOP: CULTURE AND POLITICS

Examination of all aspects of the culture and politics of Hip Hop through the lens of Urban Music. Influences from Funk and Jazz are covered. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C1, 9C2

Transfer Credit: CSU (CSU GE Area C1, C2), UC

MUS. 277 AFRICAN AMERICAN MUSIC

Explores the history, stylistic richness, and variety of African American music in the United States from the 17th century to the present. Examines the character and influence of traditional West African music on the development of American musical genres including: Spirituals, Blues, Jazz, R&B, Soul, Funk and Hip-Hop. Includes discussion and analyses of the critical issues, creative ideas and social events which informed and shaped its development and its

impact and influence on contemporary American culture, race relations, and politics. Works of major black composers and performers will be studied including their influence on composers of other cultures. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C1, 9C2

Transfer Credit: CSU (CSU GE Area C1, C2)

MUS. 290 INTRODUCTION TO MIDI MUSIC (MUSICAL INSTRUMENT DIGITAL INTERFACE)

Create music using current MIDI (Musical Instrument Digital Interface) technology and recording studio hardware and software including: DAW (Digital Audio Workstation), audio and MIDI editing, audio effects processing, mixing, sampling, synthesizers, drum machines, and sound design. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Transfer Credit: CSU

MUS. 301 PIANO I

Beginning piano with emphasis on music reading fluency, technical facility, and performance of beginning piano literature. Concert attendance may be required. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 TBA

Recommended: MUS. 100 or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C1), UC

MUS. 302 PIANO II

Continuation of MUS. 301 with emphasis on music reading fluency, technical facility and performance of advanced-beginning piano literature. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 TBA

Prerequisites: MUS. 301 or equivalent.

Transfer Credit: CSU, UC

MUS. 303 PIANO III

Continuation of MUS. 302 with emphasis on music reading fluency, technical facility and performance of intermediate piano literature. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 TBA

Prerequisites: MUS. 302 or equivalent.

Transfer Credit: CSU, UC

MUS. 304 PIANO IV

Continuation of MUS. 303 with emphasis on music reading fluency, technical facility and performance of advanced-intermediate piano literature. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 TBA

Prerequisites: MUS. 303 or equivalent.

Transfer Credit: CSU, UC

MUS. 355 VIOLIN/VIOLA I

Introduction to the fundamentals of playing the violin or viola. Students will learn proper posture and basic playing techniques through the practice of exercises and short pieces. Elements of music notation and music theory will be introduced. Students must provide their own instrument. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 TBA

Recommended: MUS. 100 or equivalent.

Transfer Credit: CSU, UC

MUS. 356 VIOLIN/VIOLA II

Continued development of basic playing skills appropriate for the advanced beginner. Students will expand upon and strengthen skills (bowing and left hand technique) learned in MUS. 355. Musical expression, sight-reading, and ensemble skills will be introduced. Skills will be developed through exercises and short pieces. Students must provide their own instrument. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 TBA

Prerequisites: MUS. 355 or equivalent, or by audition.

Transfer Credit: CSU, UC

MUS. 357 VIOLIN/VIOLA III

Refinement of basic playing skills, and development of technique appropriate for the intermediate player. Students will expand upon and strengthen skills (bowing and left hand technique) learned in MUS. 356. Technique, musical expression, sight-reading, ensemble skills, and third position will be developed through exercises and short pieces. Students must provide their own instrument. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 TBA

Prerequisites: MUS. 356 or equivalent, or by audition.

Transfer Credit: CSU, UC

MUS. 358 VIOLIN/VIOLA IV

Further refinement of basic playing skills, and development of technique appropriate for the advanced intermediate player. Students will expand upon and strengthen skills (bowing and left hand technique) learned in MUS. 357. Musical expression, sight-reading, ensemble skills, and vibrato will be developed through exercises and short pieces. Students must provide their own instrument. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 TBA

Prerequisites: MUS. 357 or equivalent, or by audition.

Transfer Credit: CSU, UC

MUS. 377 GUITAR I

Introduction to guitar technique and performance. Areas covered included stringing, tuning, fingering, playing techniques, notation, chords and chord progressions, reading guitar music, strum techniques, fingerpicking, playing simple melodies and accompaniment. Emphasis on popular and folk music literature. Introduction to music theory for the guitar. Students must provide their own instrument. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 TBA

Recommended: MUS. 100 or equivalent.

Transfer Credit: CSU, UC

MUS. 378 GUITAR II

Continuation of guitar technique and performance skills begun in MUS 377. Areas covered include barre-chords, CAGED chord/scale theory, blues scales, accompaniment techniques, and major and minor scale patterns. Emphasis

on popular music literature. Advanced beginning music theory for the guitar. Students must provide their own instrument. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 TBA

Prerequisites: MUS. 377 or equivalent.

Transfer Credit: CSU, UC

MUS. 379 GUITAR III

Refinement of intermediate guitar performance skills begun in MUS. 377 & 378. Areas covered include principles of moveable chord and scale structure (CAGED), advanced strumming and fingerpicking patterns, intermediate theory (scale, secondary dominants, and motif development), improvisation, arpeggios and reading music. Emphasis on American music literature. Students must provide their own instrument. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 TBA

Prerequisites: MUS. 378 or equivalent.

Transfer Credit: CSU, UC

MUS. 380 GUITAR IV

Further refinement of advanced intermediate guitar technique and performance skills begun in MUS. 377, 378, & 379. Areas covered include motif development, improvising, three notes per string scales, blues techniques, counterpoint, walking bass, modern rhythmic techniques and other advanced intermediate guitar techniques. Additional techniques from Doo-Wop, Rhythm and Blues, and Rock in a small ensemble. Students must provide their own instrument. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 TBA

Prerequisites: MUS. 379 or equivalent.

Transfer Credit: CSU, UC

MUS. 383.1 GUITAR ENSEMBLE I

A course for guitarists in techniques from Doo-Wop to Rhythm and Blues to Rock in a small ensemble at the beginning level. Students work extensively on these styles and within the application with the intention of public performance. Public performance required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Transfer Credit: CSU, UC

MUS. 383.2 GUITAR ENSEMBLE II

A course for guitarists in techniques from Doo-Wop to Rhythm and Blues to Rock in a small ensemble at the advanced beginning level. Students work extensively on these styles and within the application with the intention of public performance. Public performance required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: MUS. 383.1 or equivalent.

Transfer Credit: CSU, UC

MUS. 383.3 GUITAR ENSEMBLE III

A course for guitarists in techniques from Doo-Wop to Rhythm and Blues to Rock in a small ensemble at the intermediate level. Students work extensively on these styles and within the application with the intention of public performance. Public performance required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: MUS. 383.2 or equivalent.

Transfer Credit: CSU, UC

MUS. 383.4 GUITAR ENSEMBLE IV

A course for guitarists in techniques from Doo-Wop to Rhythm and Blues to Rock in a small ensemble at the advanced intermediate level. Students work extensively on these styles and within the application with the intention of public performance. Public performance required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: MUS. 383.3 or equivalent.

Transfer Credit: CSU, UC

MUS. 401 VOICE I

Basic training in vocal technique and performance skills for the beginning singer. Course content includes introductions to vocal technique (posture, initiating tone), singing anatomy (vocal tract), song preparation (practicing), music theory fundamentals (basic pitch and rhythm notation), and English diction (primary vowels). *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 TBA

Recommended: MUS. 100 or equivalent.

Transfer Credit: CSU, UC

MUS. 402 VOICE II

Continuation of training in vocal technique and performance skills begun in Music 401. Course content includes vocal technique (breathing techniques), singing anatomy (breathing musculature), song preparation and interpretation (text, emotional expression), music theory fundamentals (major scales/keys, 16th notes), and English diction (secondary vowels). *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 TBA

Prerequisites: MUS. 401 or equivalent.

Transfer Credit: CSU, UC

MUS. 403 VOICE III

Refinement of vocal technique and performance skills begun in Music 401 & 402. Course content includes vocal technique (more breathing methods), singing anatomy (larynx), song preparation and interpretation (facial expression, gesture), music theory fundamentals (intervals, triads), and English diction (diphthongs, consonants). *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 TBA

Prerequisites: MUS. 402 or equivalent.

Transfer Credit: CSU, UC

MUS. 404 VOICE IV

Further refinement of vocal technique and performance skills begun in Music 401, 402 & 403. Content includes vocal technique (resonance), singing anatomy (resonating spaces), song preparation and interpretation (style elements), music theory fundamentals (minor scales/keys, triplets), and English diction (glides, more work with consonants). *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 TBA

Prerequisites: MUS. 403 or equivalent.

Transfer Credit: CSU, UC

MUS. 410.1 VOICE FOR THE MUSICAL THEATER PRODUCTION I

Beginning level theory and practice in vocal performance and theatrical production, designed to prepare students to perform in a musical theater production. Activities include learning vocal technique, acting technique, and song repertoire that will be utilized in performance. Lecture subjects include the historical context of the libretto and the musical style and song structure specific to the production. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 16-18 Lecture; 48-54 Lab; 32-36 TBA

Transfer Credit: CSU, UC

MUS. 410.2 VOICE FOR THE MUSICAL THEATER PRODUCTION II

Intermediate level theory and practice in vocal performance and theatrical production, designed to prepare students to perform in a musical theater production. Activities include learning vocal technique, acting technique, and song repertoire that will be utilized in performance. Lecture subjects include the historical context of the libretto and the musical style and song structure specific to the production. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 16-18 Lecture; 48-54 Lab; 32-36 TBA

Prerequisites: MUS. 410.1 or equivalent.

Transfer Credit: CSU, UC

MUS. 410.3 VOICE FOR THE MUSICAL THEATER PRODUCTION III

Advanced intermediate level theory and practice in vocal performance and theatrical production, designed to prepare students to perform in a musical theater production. Activities include learning vocal technique, acting technique, and song repertoire that will be utilized in performance. Lecture subjects include the historical context of the libretto and the musical style and song structure specific to the production. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 16-18 Lecture; 48-54 Lab; 32-36 TBA

Prerequisites: MUS. 410.2 or equivalent.

Transfer Credit: CSU, UC

MUS. 410.4 VOICE FOR THE MUSICAL THEATER PRODUCTION IV

Advanced level theory and practice in vocal performance and theatrical production, designed to prepare students to perform in a musical theater production. Activities include learning vocal technique, acting technique, and song repertoire that will be utilized in performance. Lecture subjects include the historical context of the libretto and the musical style and song structure specific to the production. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 16-18 Lecture; 48-54 Lab; 32-36 TBA

Prerequisites: MUS. 410.3 or equivalent.

Transfer Credit: CSU, UC

MUS. 420.1 ORCHESTRA FOR THE MUSICAL THEATER PRODUCTION I

Music theory and practice at the beginning level in orchestral performance and theatrical production, designed to prepare students to perform in a musical theater production. Activities include learning instrumental technique and song repertoire that will be utilized in performance. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 16-18 TBA; 32-36 Homework

Recommended: Proficiency with a musical instrument is strongly recommended.

Transfer Credit: CSU, UC

MUS. 420.2 ORCHESTRA FOR THE MUSICAL THEATER PRODUCTION II

Music theory and practice at the intermediate level in orchestral performance and theatrical production, designed to prepare students to perform in a musical theater production. Activities include learning instrumental technique and song repertoire that will be utilized in performance. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 16-18 TBA; 32-36 Homework

Recommended: Proficiency with a musical instrument is strongly recommended.

Transfer Credit: CSU

MUS. 420.3 ORCHESTRA FOR THE MUSICAL THEATER PRODUCTION III

Music theory and practice at the advanced intermediate level in orchestral performance and theatrical production, designed to prepare students to perform in a musical theater production. Activities include learning instrumental technique and song repertoire that will be utilized in performance. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 16-18 TBA; 32-36 Homework

Recommended: Proficiency with a musical instrument is strongly recommended.

Transfer Credit: CSU

MUS. 420.4 ORCHESTRA FOR THE MUSICAL THEATER PRODUCTION IV

Music theory and practice at the advanced level in orchestral performance and theatrical production, designed to prepare students to perform in a musical theater production. Activities include learning instrumental technique and song repertoire that will be utilized in performance. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 16-18 TBA; 32-36 Homework

Recommended: Proficiency with a musical instrument is strongly recommended.

Transfer Credit: CSU

MUS. 430.1 CONCERT BAND I

Study and performance of music for concert band at the beginning level. Performance is required. Open to all students of the College. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Audition for placement.

Recommended: MUS. 100 or equivalent.

Transfer Credit: CSU, UC

C-ID: MUS 180

MUS. 430.2 CONCERT BAND II

Study and performance of music for concert band at the advanced beginning level. Performance is required. Open

to all students of the College. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: MUS. 430.1 or equivalent.

Transfer Credit: CSU, UC

C-ID: MUS 180

MUS. 430.3 CONCERT BAND III

Study and performance of music for concert band at the intermediate level. Performance is required. Open to all students of the College. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: MUS. 430.2 or equivalent.

Transfer Credit: CSU, UC

C-ID: MUS 180

MUS. 430.4 CONCERT BAND IV

Study and performance of music for concert band at the advanced intermediate level. Performance is required. Open to all students of the College. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: MUS. 430.3 or equivalent.

Transfer Credit: CSU, UC

C-ID: MUS 180

MUS. 440.1 SYMPHONY ORCHESTRA I

Study and performance of music for symphony orchestra with emphasis on rhythmic accuracy. Performance is required. Open to all students of the College. Experience playing string, woodwind, brass, or percussion instrument expected. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Audition for placement

Recommended: MUS. 100 or equivalent.

Transfer Credit: CSU, UC

C-ID: MUS. 180

MUS. 440.2 SYMPHONY ORCHESTRA II

Study and performance of music for symphony orchestra with emphasis on accuracy of pitches. Performance is required. Open to all students of the College. Experience playing string, woodwind, brass, or percussion instrument expected. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1**Hours/semester:** 48-54 Lab**Prerequisites:** MUS. 440.1 or equivalent.**Transfer Credit:** CSU, UC**C-ID:** MUS. 180**MUS. 440.3 SYMPHONY ORCHESTRA III**

Study and performance of music for symphony orchestra with emphasis on accuracy of articulations and dynamics. Performance is required. Open to all students of the College. Experience playing string, woodwind, brass, or percussion instrument expected. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1**Hours/semester:** 48-54 Lab**Prerequisites:** MUS. 440.2 or equivalent.**Transfer Credit:** CSU, UC**C-ID:** MUS. 180**MUS. 440.4 SYMPHONY ORCHESTRA IV**

Study and performance of music for symphony orchestra with emphasis on proper instrumental technique and intonation. Performance is required. Open to all students of the College. Experience playing string, woodwind, brass, or percussion instrument expected. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1**Hours/semester:** 48-54 Lab**Prerequisites:** MUS. 440.3 or equivalent.**Transfer Credit:** CSU, UC**C-ID:** MUS. 180**MUS. 450.1 JAZZ BAND I**

Students will examine the intricacies of jazz -- including swing, funk, soul, Latin, and ballad -- by studying, organizing, rehearsing, and performing contemporary jazz band repertoire at the beginning level. Performance will be required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1**Hours/semester:** 48-54 Lab**Prerequisites:** Audition for placement.**Recommended:** MUS. 100 or equivalent.**Transfer Credit:** CSU, UC**C-ID:** MUS 180**MUS. 450.2 JAZZ BAND II**

Students will examine the intricacies of jazz -- including swing, funk, soul, Latin, and ballad -- by studying, organizing, rehearsing, and performing contemporary jazz band repertoire at the advanced beginning level. Performance will be required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1**Hours/semester:** 48-54 Lab**Prerequisites:** MUS. 450.1 or equivalent.**Transfer Credit:** CSU, UC**C-ID:** MUS 180**MUS. 450.3 JAZZ BAND III**

Students will examine the intricacies of jazz -- including swing, funk, soul, Latin, and ballad -- by studying, organizing, rehearsing, and performing contemporary jazz band repertoire at the intermediate level. Performance will be required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1**Hours/semester:** 48-54 Lab**Prerequisites:** MUS. 450.2 or equivalent.**Transfer Credit:** CSU, UC**C-ID:** MUS 180**MUS. 450.4 JAZZ BAND IV**

Students will examine the intricacies of jazz -- including swing, funk, soul, Latin, and ballad -- by studying, organizing, rehearsing, and performing contemporary jazz band repertoire at the advanced level. Performance will be required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1**Hours/semester:** 48-54 Lab**Prerequisites:** MUS. 450.3 or equivalent.**Transfer Credit:** CSU, UC**C-ID:** MUS 180

MUS. 470.1 CONCERT CHOIR I

Performance of choral music for accompanied and/or unaccompanied choir at the beginning level. The choir may perform alone or in conjunction with other musical organizations on and off campus. Performance is required. Open to all students of the College. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Audition for placement.

Recommended: MUS. 100 or equivalent.

Transfer Credit: CSU, UC

C-ID: MUS 180

MUS. 470.2 CONCERT CHOIR II

Performance of choral music for accompanied and/or unaccompanied choir at the advanced beginning level. The choir may perform alone or in conjunction with other musical organizations on and off campus. Performance is required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: MUS. 470.1 or equivalent.

Transfer Credit: CSU, UC

C-ID: MUS 180

MUS. 470.3 CONCERT CHOIR III

Performance of choral music for accompanied and/or unaccompanied choir at the intermediate level. The choir may perform alone or in conjunction with other musical organizations on and off campus. Performance is required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: MUS. 470.2 or equivalent.

Transfer Credit: CSU, UC

C-ID: MUS 180

MUS. 470.4 CONCERT CHOIR IV

Performance of choral music for accompanied and/or unaccompanied choir at the advanced intermediate level. The choir may perform alone or in conjunction with other musical organizations on and off campus. Performance is required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: MUS. 470.3 or equivalent.

Transfer Credit: CSU, UC

C-ID: MUS 180

MUS. 485.1 VOCAL JAZZ ENSEMBLE I

Performance of a wide range of vocal jazz and popular music for accompanied and/or a cappella choir at the beginning level. Performance is required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Audition for placement.

Recommended: MUS. 100 or equivalent.

Transfer Credit: CSU, UC

C-ID: MUS. 180

MUS. 485.2 VOCAL JAZZ ENSEMBLE II

Performance of a wide range of vocal jazz and popular music for accompanied and/or a cappella choir at the advanced-beginning level. Performance is required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: MUS. 485.1 or equivalent, or instructor approval.

Transfer Credit: CSU, UC

C-ID: MUS. 180

MUS. 485.3 VOCAL JAZZ ENSEMBLE III

Performance of a wide range of vocal jazz and popular music for accompanied and/or a cappella choir at the intermediate level. Performance is required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: MUS. 485.2 or equivalent, or instructor approval.

Transfer Credit: CSU, UC

C-ID: MUS. 180

MUS. 485.4 VOCAL JAZZ ENSEMBLE IV

Performance of a wide range of vocal jazz and popular music for accompanied and/or a cappella choir at the advanced level. Performance is required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: MUS. 485.3 or equivalent, or instructor approval.

Transfer Credit: CSU, UC

C-ID: MUS. 180

MUS. 501 STUDIO LESSONS I (APPLIED MUSIC I)

Individual study of the appropriate beginning undergraduate transfer-level techniques and repertoire for the specific instrument or voice being studied. Emphasis is on the progressive development of skills needed for solo performance. Each week students will take a 30-minute individual lesson and complete appropriate practice hours. Achievement is evaluated through a juried performance. Designed for Music majors who are able to perform at college level. NOTE: Individual lessons (8-9 hours per semester) are provided in addition to the lecture. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 8-9 TBA; 24-27 Homework

Prerequisites: MUS. 304 or MUS. 404 or MUS. 358 or MUS. 380 or equivalent. Beginning undergraduate transfer-level performance ability (and equivalency) will be confirmed through placement audition.

Corequisites: MUS. 105 or MUS. 106 or MUS. 107 or MUS. 108 and MUS. 111 or MUS. 112 or MUS. 113 or MUS. 114 or equivalent.

Transfer Credit: CSU, UC

C-ID: MUS 160

MUS. 502 STUDIO LESSONS II (APPLIED MUSIC II)

Individual study of the appropriate advanced-beginning undergraduate transfer-level techniques and repertoire for the specific instrument or voice being studied. The emphasis is on the progressive development of skills needed for solo performance. Each week students will take a 30-minute individual lesson and complete appropriate practice hours. Achievement is evaluated through a juried performance. Designed for Music majors who are able to perform at college level. NOTE: Individual lessons (8-9 hours per semester) are provided in addition to the lecture. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 8-9 TBA; 24-27 Homework

Prerequisites: MUS. 501 or equivalent.

Corequisites: MUS. 105 or MUS. 106 or MUS. 107 or MUS. 108 and MUS. 111 or MUS. 112 or MUS. 113 or MUS. 114 or equivalent.

Transfer Credit: CSU, UC

C-ID: MUS 160

MUS. 503 STUDIO LESSONS III (APPLIED MUSIC III)

Individual study of the appropriate intermediate undergraduate transfer-level techniques and repertoire for the specific instrument or voice being studied. The emphasis is on the progressive development of skills needed for solo performance. Each week students will take a 30-minute individual lesson and complete appropriate practice hours. Achievement is evaluated through a juried performance. Designed for Music majors who are able to perform at college level. NOTE: Individual lessons (8-9 hours per semester) are provided in addition to the lecture. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 8-9 TBA; 24-27 Homework

Prerequisites: MUS. 502 or equivalent.

Corequisites: MUS. 105 or MUS. 106 or MUS. 107 or MUS. 108 and MUS. 111 or MUS. 112 or MUS. 113 or MUS. 114 or equivalent.

Transfer Credit: CSU, UC

C-ID: MUS 160

MUS. 504 STUDIO LESSONS IV (APPLIED MUSIC IV)

Individual study of the appropriate advanced-intermediate undergraduate transfer-level techniques and repertoire for the specific instrument or voice being studied. The emphasis is on the progressive development of skills needed for solo performance. Each week students will take a 30-minute individual lesson and complete appropriate practice hours. Achievement is evaluated through a juried performance. Designed for Music majors who are able to perform at college level. NOTE: Individual lessons (8-9 hours per semester) are provided in addition to the lecture. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 8-9 TBA; 24-27 Homework

Prerequisites: MUS. 503 or equivalent.

Corequisites: MUS. 105 or MUS. 106 or MUS. 107 or MUS. 108 and MUS. 111 or MUS. 112 or MUS. 113 or MUS. 114 or equivalent.



Transfer Credit: CSU, UC

C-ID: MUS 160

MUS. 667 SPECIAL TOPICS IN MUSIC PERFORMANCE

Advanced study in specialized areas of the performing arts. Designed for vocalists, pianists, and instrumentalists, this course provides for extended in-depth study of both performance practice and performance art using selected themes as listed in the class schedule. May be offered for 1 unit (8 hours lecture, 24 hours lab) or 2 units (16 hours lecture, 48 hours lab). *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1 - 2

Hours/semester: 8-18 Lecture; 24-54 Lab; 16-36 Homework

Prerequisites: Successful completion of a music performance course, or demonstration of equivalent skill in the performance area as determined by the instructor.

Transfer Credit: CSU

MUS. 695 INDEPENDENT STUDY IN MUSIC

Designed for students who are interested in furthering their knowledge via self-paced, individualized, directed instruction provided in selected areas to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

Network Engineering Technologies

NETX 400 INTRODUCTION TO LOCAL AREA NETWORK

Cisco Academy Course – CCNA 1 An introductory course in networking, with focus on local area networks (LAN). Topics include LAN hardware (network interface cards, hubs, switches, and SOHO routers), LAN topologies, network administration through MS Windows, the OSI reference

model and the TCP/IP protocol stack. Ethernet operation, IP network addressing and routing, and TCP/IP transport protocols are explored with lecture, on-line module and hands-on activity. This course is aligned with the first module of the Cisco Network Academy (CCNA-1) and includes a student enrollment in the Academy. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Transfer Credit: CSU

NETX 401 SURVEY OF NETWORKING AND WIRELESS TECHNOLOGIES

Introduction to today's convergent communications technologies. Course will examine the structure, function and services of the networks and systems used to provide voice, data, and wireless communications. This course has been designed to provide anyone interested with insight into the workings and opportunities of this dynamic and exciting field. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

NETX 410 STRUCTURED WIRING AND CABLING

Hands-on technical introduction to the EIA/TIA 568 and related standards of Structured Wiring and Cabling systems for Networking infrastructures. Course covers tools, test equipment, cables, terminations, and specifications. Students will install, test and troubleshoot data lines, network patch panels, hybrid cabling and PoE distribution. Course is based on Fiber Optics Association CPCT & CFOT certification standards. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 40-45 Lecture; 24-27 Lab; 16-18 TBA; 64-72 Homework

Transfer Credit: CSU

NETX 411 FIBER OPTICS TECHNOLOGY

An introductory course in fiber optics technology that will include the theory of fiber optic communications, fiber systems design, network construction, and fiber optic test equipment. Instructor-directed hands-on splicing and working with test equipment will be a component of the course. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Transfer Credit: CSU

NETX 413 WIRELESS LOCAL AREA NETWORKS

An in depth technical course in the design and implementation of wireless local area networks. Students will be introduced to the technology, infrastructure, application and installation of wireless networks. Students will install and administer a wireless network using Cisco product lines. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Prerequisites: NETX 400 or equivalent training or experience.

Transfer Credit: CSU

NETX 420 PC CONFIGURATION AND REPAIR

Provides preparation for A+ certification. A hands-on technical course designed to provide an in-depth understanding of PC hardware and software from installation and repair outlook. Materials covered will include beginning and advanced software, hardware components and configuration, operating systems and how they control the PC. Includes direct hands-on experience with the tools and skills required for entry-level employment. *Letter Grade Only. Degree Credit.*

Units: 6

Hours/semester: 80-90 Lecture; 48-54 Lab; 16-18 TBA; 144-162 Homework

Transfer Credit: CSU

NETX 421 A+ CERTIFICATION EXAM PREP

Designed to assist students in preparing to take the CompTIA A+ certification exams for Computer Repair. Students who have completed NETX 420 or equivalent course work (or have similar training or work experience) may enroll in this course. *Pass/No Pass Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 48-54 TBA; 16-18 Homework

Prerequisites: NETX 420 or equivalent study or training in another school, in military service, or on-the-job training or experience.

Transfer Credit: CSU

NETX 423 MOBILE DEVICE CONNECTIVITY SUPPORT

The essentials of mobile device end-user support, including over-the-air technologies, network infrastructure, mobile device management, security, and troubleshooting techniques. Students will gain the knowledge and skills required to understand, deploy, and troubleshoot mobile devices. Patterned after CompTIA Mobility+ Certification. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 Homework

Recommended: NETX 400 or equivalent.

Transfer Credit: CSU

NETX 430 INTRODUCTION TO ROUTERS

Examines common protocols, IP networking concepts and subnetting techniques. Includes instructor directed hands-on activities. Patterned after Cisco training guidelines. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Prerequisites: NETX 400 or equivalent training or experience.

Transfer Credit: CSU

NETX 431 NETWORK SWITCHES - CONCEPTS AND APPLICATIONS

Examines switching protocols, spanning tree protocols, virtual LANs and other specific models. Basic design of switch configurations and the use of switches in network architecture will be covered. Includes instructor-directed hands-on activities. Patterned after Cisco training guidelines. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Prerequisites: NETX 400 or equivalent training or experience.

Recommended: NETX 430 or equivalent.

Transfer Credit: CSU

NETX 432 ROUTING CONCEPTS AND APPLICATIONS

Advanced course on routing concepts and configuration on large internetworks. Students will configure and manage

routers by implementing common protocol such as EIGRP and OSPF. Other topics include access-list, routing principles, VLSM and WAN technology. This course is aligned with 4th module of Cisco Network Academy Course (CCNA-4). *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Prerequisites: NETX 430 or equivalent training or experience.

Transfer Credit: CSU

NETX 435 NETWORK SECURITY

Introduction to network security using firewall and VPN (virtual private network) technology. Students will be exposed to the theory and application of both firewall and VPN network architecture. Students will have the opportunity for hands-on practice to administer security policy and VPN configuration using both Check Point software and Cisco's ASA (Adaptive Security Appliance). *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Prerequisites: NETX 430 or equivalent training or experience.

Transfer Credit: CSU

NETX 439 TROUBLESHOOTING THE INTERNETWORK

Focus on troubleshooting methodology and techniques on routers and switches in a network infrastructure. Students will learn to use existing software diagnostic features and use a protocol analyzer in the analysis and troubleshooting of networks. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Prerequisites: NETX 431 and NETX 432, or equivalent training or experience.

Transfer Credit: CSU

NETX 440 INTRODUCTION TO MICROSOFT SERVER ADMINISTRATION

An introductory course in Server Administration specific to Microsoft Server. Coverage includes the functions and concepts of local and wide area networks, Microsoft server, user and group accounts and domain services. Hands-on

experience provided in configuring and troubleshooting servers, workstations, and peripheral devices. Course is patterned after Microsoft Solutions guidelines. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Prerequisites: NETX 400 or equivalent training or experience.

Transfer Credit: CSU

NETX 443 INTRODUCTION TO LINUX ADMINISTRATION

An introductory course in Linux administration in a networked environment, including instructor-directed hands-on activities. Students will install a Linux system and perform basic administrative tasks using the BASH shell. Topics include system architecture, FHS, GNU and UNIX commands, devices and Linux file systems, network configuration and troubleshooting, and printing systems. Patterned after Linux Professional Institute and CompTIA Linux certification objectives. *Letter Grade Only. Degree Credit.*

Units: 3.5

Hours/semester: 48-54 Lecture; 24-27 Lab; 96-108 Homework

Recommended: NETX 400 or equivalent training or experience in basic Network addressing and protocols.

Transfer Credit: CSU

NETX 450 VOICE OVER IP (VOIP) ESSENTIALS

Introduction to VoIP theory and configuration. Key topics include VoIP Gateway, Call Flows, IP phone configurations, dial peers, Voice Mail and End User Support. Students will configure VoIP phone systems in a real-world environment. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Prerequisites: NETX 430 or equivalent training or 6 months on-the-job experience with routing and NETX 431 or equivalent training or 6+ months of on-the-job network switching experience.

Transfer Credit: CSU

NETX 670 COOPERATIVE EDUCATION IN NETWORK ENGINEERING TECHNOLOGIES

Students may receive credit for work experience related to their major field or to their established career goal. Seminars and individual conferences are scheduled at convenient times during the semester to assist the student in establishing learning objectives related to the student's employment. Students are given appropriate assignments related to the stated objectives and graded in accordance with the college's established grading system. As an alternative, related instruction classes meeting one hour per week, usually in the evening, are available for those students who prefer or need a more structured learning process. Four units of credit for 300 hours worked per semester may be earned by students with jobs related to their academic or occupational majors or goals. May be repeated for credit up to 16 units. This limitation applies to Occupational Cooperative Education work experience courses offered within the SMCCCD. *Pass/No Pass Only. Degree Credit.*

Units: 4

Hours/semester: 300 Work Experience

Prerequisites: Permission of the NETX Cooperative Education Supervisor, concurrent enrollment in a planned vocational program, and employment in a college-approved job directly related to the student's academic major.

Transfer Credit: CSU

Oceanography

OCEN 100 SURVEY OF OCEANOGRAPHY

Selected topics in oceanography designed to provide the students with an introduction and basic understanding of the geological, physical, chemical and biological aspects of the world's oceans. Methods of scientific investigation are used to explain the history, accomplishments and goals of modern oceanography. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU (CSU GE Area B1), UC (IGETC Area 5A)

OCEN 101 OCEANOGRAPHY LABORATORY/FIELD STUDY

Introductory exercises in geographic and bathymetric maps, statistical and microscopic studies of sediments, waves and sediment transport, bathymetry of ocean basins, ocean currents, tides, estuaries, physical and chemical properties of seawater, coastal erosion, and forms and diversity of

marine life. Field trips included. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Corequisites: OCEN 100

Transfer Credit: CSU (CSU GE Area B3), UC (IGETC Area 5C)

Paralegal Studies

See also listings under Legal Studies.

LEGL 240 INTRODUCTION TO LAW

Overview of the U.S. legal system. Fundamental principles and topics in civil and criminal law and an introduction to critical legal analysis. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU

LEGL 245 PARALEGAL PROFESSION I

An overview of the paralegal profession: roles and responsibilities in the modern law office, preparing for a legal career, job skills, and professional ethics. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

LEGL 247 PARALEGAL PROFESSION II

Capstone course. Provides opportunities for students to integrate paralegal knowledge and skills and complete a portfolio of professional documents. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: LEGL 245 or equivalent.

Recommended: Successful completion of at least 3 of the following core courses in Paralegal Studies: LEGL 240 or LEGL 250 or LEGL 252 or LEGL 430 and either, LEGL 290 or LEGL 671 or equivalent.

Transfer Credit: CSU



LEGL 250 LEGAL RESEARCH, WRITING, AND ANALYSIS I

Introduction to basic techniques of legal research, writing, and analysis—essential tools of the legal profession. Students will research legal issues, frame legal arguments, and analyze legal problems. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Completion of, or concurrent enrollment in, LEGL 245 or equivalent.

Transfer Credit: CSU

LEGL 252 CIVIL LITIGATION I

An introduction to civil litigation, with a specific focus on the initial phases of the lawsuit and pleadings. Students will study and practice key litigation such as interviewing clients, conducting investigations, and drafting pleadings. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: LEGL 240 or equivalent.

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU

LEGL 260 LEGAL RESEARCH, WRITING, AND ANALYSIS II

This course provides advanced instruction in legal research, writing, and analysis. Students will research legal issues, analyze legal arguments, and draft legal memos. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: LEGL 250 or equivalent.

Transfer Credit: CSU

LEGL 275 CONSTITUTIONAL LAW, CIVIL RIGHTS, AND CIVIL LIBERTIES

Focus on the Constitution as the basis for individual civil liberties in the United States. Students will investigate legal controversies related to current and past struggles for equal rights and justice. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU (CSU GE Area D, D US-2), UC (IGETC Area 4)

LEGL 290 COMMUNITY LEGAL SERVICES CLINIC

Builds legal skills and knowledge via an innovative combination of classroom instruction and meaningful community service. Under the close supervision of a licensed attorney, paralegal students will work collaboratively with colleagues and clients to address legal problems while serving our community. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: LEGL 240 or LEGL 245 or LEGL 250 or equivalent.

Transfer Credit: CSU

LEGL 304 CONCEPTS OF CRIMINAL LAW

Historical development and philosophy of criminal law and constitutional provisions. Special emphasis on legal definitions, the classifications of crime and their application to the administration of justice system. Study of case law, methodology, and concepts of law as a social force. Also listed as ADMJ 104. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of or concurrent enrollment in, ADMJ 100 or LEGL 240 or equivalent.

Transfer Credit: CSU, UC

LEGL 306 LEGAL ASPECTS OF EVIDENCE

Origin, 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 and interpreting individual rights and case studies. Also listed as ADMJ 106. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of, or concurrent enrollment in, ADMJ 100 or LEGL 240, or equivalent.

Transfer Credit: CSU

LEGL 320 CRIMINAL INVESTIGATION

A course designed for introductory and in-service Administration of Justice and Paralegal students to provide orientation to general and specific aspects of crimes and detection. The course also covers crime scene searches and suspect apprehension. Also listed as ADMJ 120. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of or concurrent enrollment in, LEGL 240 or ADMJ 100 or equivalent.

Transfer Credit: CSU

LEGL 354 CIVIL LITIGATION II

Key topics in civil litigation, with a specific focus on discovery, trial, and appeals. Students will learn litigation skills, such as conducting discovery, filing motions, and providing litigation support. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: LEGL 252 or equivalent.

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

Transfer Credit: CSU

LEGL 430 LAW OFFICE TECHNOLOGY

Hands-on instruction in technologies designed for use by legal professionals. Special emphasis is given to relevant technological skills for paralegals and legal support staff. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. BCM. 104 or equivalent and LEGL 245 or equivalent.

Transfer Credit: CSU

LEGL 670 PARALEGAL INTERNSHIP

Exploration of legal work through internships at public and private legal organizations. Students will intern a minimum of 225 hours in one semester to complete the course. Student Interns are responsible for securing their own internship. *Pass/No Pass Only. Degree Credit.*

Units: 3

Hours/semester: 225 Work Experience

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

Philosophy**PHIL 100 INTRODUCTION TO PHILOSOPHY**

A survey of views and arguments in the Western philosophical tradition regarding ourselves and our place in the universe. It explores fundamental questions about mind, reality, religion, knowledge, free will, moral values, political ideals, and other topics. Incorporates an introduction to the methods of logic and critical thinking. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: PHIL 100

PHIL 103 CRITICAL THINKING

A study of the standards, methods, and skills for deciding what to believe on the basis of evidence. It presents rigorous deductive, inductive, and abductive techniques for analyzing, evaluating and composing arguments as used in a wide variety of contexts and disciplines. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9A3

Transfer Credit: CSU (CSU GE Area A3), UC

PHIL 160 HISTORY OF WESTERN PHILOSOPHY: ANCIENT AND MEDIEVAL

This course covers the history of Western philosophy from the ancient Greeks to Medieval period, with emphasis on the Pre-Socratics, Plato, Aristotle, Epicureans, Stoics, Skeptics, and philosophers of Medieval Judaism, Christianity, and Islam. Topics include philosophy and religion, myth, metaphysics, science, human nature, and society. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3



Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

PHIL 175 HISTORY OF WESTERN PHILOSOPHY: 16TH – 18TH CENTURY

The history of Western Philosophy from Descartes through Kant, set in the context of the religious, scientific, and political revolutions of the Modern Age. Representative philosophers include Hobbes, Spinoza, Locke, Leibniz, Berkeley, Hume, Rousseau, Kant, and others. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

PHIL 200 INTRODUCTION TO LOGIC

An introduction to symbolic logic with an emphasis on proof systems for propositional and predicate logic. Includes translation of English sentences into a symbolic language, patterns and techniques of deductive and inductive inference, and basic probability theory. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent. Eligibility for, MATH 120 or equivalent.

AA/AS Degree Requirements: Area 9A3

Transfer Credit: CSU (CSU GE Area A3), UC

C-ID: PHIL 110

PHIL 240 INTRODUCTION TO ETHICS

A critical examination of philosophical views—ancient and modern—concerning human nature and human potential; the fundamental concepts of goodness, rightness, and justice; the virtues of persons and social institutions; the relationship between the individual and society; criteria for moral evaluation; ideals of human action, ultimate aims (such as happiness), and ways of living. A variety of moral theories and contemporary moral issues will be explored in depth. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: PHIL 120

PHIL 280 INTRODUCTION TO POLITICAL PHILOSOPHY

An introduction to political philosophy. Readings and critical discussion of political philosophies (such as liberalism, conservatism, communitarianism, libertarianism, socialism, feminism, etc.) through readings by influential thinkers (such as Hobbes, Locke, Rousseau, Kant, Marx, Rawls, and contemporary writers). Topics include theories of human nature, conceptions of justice, the relationship between the individual and the state, the distribution of wealth and power, the significance of ideology, and the role of markets. Also listed as PLSC 280. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2, 9D3

Transfer Credit: CSU (CSU GE Area C2; Area D), UC (IGETC Area 3B; Area 4)

C-ID: POLS 120

PHIL 300 INTRO TO WORLD RELIGIONS

This course explores the origins, beliefs, practices, art and rituals of major religious traditions (including Zoroastrian, Jewish, Christian, Islamic, Hindu, Buddhist, Confucian, Taoist, and others). It also examines the role of religion in everyday life as well as the enduring philosophical issues that religious traditions grapple with. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

PHIL 312 INTRODUCTION TO PHILOSOPHY OF RELIGION

An introduction to philosophical thinking about religion, with an emphasis on issues central to traditional monotheism. This course teaches how to critically examine arguments concerning the origin of religion, the existence of God, the historicity of miracles, the veridicality of religious and mystical experience, the existence of spirits or souls, the possibility of life after death, the equal validity of all religions, and other topics. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

PHIL 320 ASIAN PHILOSOPHY

A survey of the enduring philosophical traditions of India, China, and Japan. Influential philosophers, texts, and theories will be compared and evaluated. Topics include human nature and social relations, moral values (such as humaneness, non-injury, and duty), theories of knowledge, accounts of the origin and structure of nature, and metaphysical notions (such as karma, nirvana, chi, and yin/yang). *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

PHIL B10 MEDICAL ETHICS

Application of moral theory to a variety of problems in medicine and health care delivery, such as: uses of medical technology, allocation of resources, responsibilities and obligations of health care providers, medically assisted dying, genetic screening, abortion and reproductive rights, and experiments on human or animal subjects. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Admission to the Bachelor of Science in Respiratory Care Program; and PHIL 100 or PHIL 240 or PSYC 100 or equivalent.

Physics

PHYS 105 CONCEPTUAL PHYSICS

A conceptual introduction to physics, intended to foster scientific understanding of the world. Stresses important and applicable topics in motion, force, oscillations, fluids, thermodynamics, waves, electricity, magnetism, light and modern physics. Some students may wish to use it as extra preparation for algebra-based physics. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. MATH 110 or equivalent.

Transfer Credit: CSU (CSU GE Area B1), UC (IGETC Area 5A)

PHYS 106 CONCEPTUAL PHYSICS LABORATORY

A laboratory exploration of physical phenomena covered in Conceptual Physics lecture (PHYS 105). Intended to reinforce those topics through hands-on investigation and develop an understanding of the scientific method. May be taken concurrently or after Physics 105. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Corequisites: PHYS 105 Students may either be co-enrolled or have completed Conceptual Physics (PHYS 105) with a C or better in order to take this laboratory course.

Recommended: Completion of MATH 110, or MATH 111 and MATH 112, with a grade of C or better, or equivalent. Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B3), UC (IGETC Area 5C)

PHYS 114 SURVEY OF CHEMISTRY AND PHYSICS

A conceptual survey of physical science (physics and chemistry) intended for non-science majors at the GE level. A general discussion of the scientific method and techniques will be followed by physics, chemistry, and integrated topics. The laboratory portion will cover a hands-on exploration of phenomena discussed in lecture. The physics component of the course will discuss motion, force, energy, electricity and magnetism, waves and light. The chemistry component of the course will focus on chemicals and reactions common in everyday life. Concepts relating to the nature and interactions of atoms, ions, and molecules will be presented. Students will also learn to use and evaluate information presented on product labels, in

advertisement, and available through the internet. Also listed as CHEM 114. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: MATH 110 or MATH 111 and MATH 112 or equivalent.

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A, 5C)

C-ID: CHEM 140; PHYS 140

PHYS 210 GENERAL PHYSICS I

The first semester of a two-semester sequence of algebra/trigonometry-based physics. Designed for students majoring in certain fields of letters and science, and required of those planning to enter medicine, dentistry, pharmacy, optometry, agriculture or forestry. Covers mechanics, fluids, waves and thermodynamics. The laboratory portion covers measurement and analysis of phenomena discussed in lecture. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: MATH 130 or appropriate placement test score and other measures as appropriate, or equivalent.

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A)

C-ID: PHYS 100S; PHYS 105

PHYS 211 GENERAL PHYSICS I-CALCULUS SUPPLEMENT

Further depth and application of calculus to topics in PHYS 210. Examples include derivatives and integrals of equations of motion, work done by a variable force, and torque as a cross product. Required of some pre-medical, biology, and architecture students. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Prerequisites: Concurrent enrollment in, or completion of MATH 242 or MATH 252 or appropriate placement test score and other measures as appropriate, or equivalent; and concurrent enrollment in, or completion of, PHYS 210 or equivalent.

Transfer Credit: CSU, UC

PHYS 220 GENERAL PHYSICS II

The second semester of a two-semester sequence of algebra/trigonometry-based physics. Designed for students majoring in certain fields of letters and science, and required of those planning to enter medicine, dentistry, pharmacy, optometry, agriculture or forestry. Covers electricity, magnetism, light and modern physics. The laboratory portion covers measurement and analysis of phenomena discussed in lecture. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: PHYS 210 or equivalent.

AA/AS Degree Requirements: Area 9B1

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A)

C-ID: PHYS 100S; PHYS 110

PHYS 221 GEN PHYSICS II - CALCULUS SUPPLEMENT

Further depth and application of calculus to topics in PHYS 220. Examples include surface integrals for Gauss's Law, line integrals for Ampere's Law, classical wave equation. Required of some premedical, biology, and architecture students. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Prerequisites: Concurrent enrollment in or completion of MATH 242 or MATH 252 or appropriate placement test score and other measures as appropriate, or equivalent; and completion of or concurrent enrollment in, PHYS 220 or equivalent.

Transfer Credit: CSU, UC

PHYS 250 PHYSICS WITH CALCULUS I

The first semester of a three semester sequence of calculus-based physics. Designed to give students majoring in engineering, physics or chemistry a thorough foundation in the fundamentals of physics. Covers Newtonian mechanics including gravitation and mechanical oscillations. The laboratory portion covers measurement and analysis of phenomena discussed in lecture. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: MATH 251 and MATH 252 or concurrent enrollment in MATH 252, or appropriate placement test score and other measures as appropriate, or equivalent.

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A)

C-ID: PHYS 200S; PHYS 205

PHYS 260 PHYSICS WITH CALCULUS II

The second semester of a three semester sequence of calculus-based physics (may also be taken as the third semester). Designed to give students majoring in engineering, physics or chemistry a thorough foundation in the fundamentals of physics. Covers electricity, magnetism and electromagnetic waves. The laboratory portion covers measurement and analysis of phenomena discussed in lecture. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: PHYS 250 and completion of or concurrent enrollment in, MATH 253

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A)

C-ID: PHYS 200S; PHYS 210

PHYS 270 PHYSICS WITH CALCULUS III

The third semester of a three semester sequence of calculus-based physics (may also be taken directly after PHYS 250). Designed to give students majoring in engineering, physics or chemistry a thorough foundation in the fundamentals of physics. Covers fluids, thermodynamics, waves & light and modern physics. The laboratory portion covers measurement and analysis of phenomena discussed in lecture. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: PHYS 250 and MATH 252 or equivalent.

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A)

C-ID: PHYS 200S; PHYS 215

PHYS 695 INDEPENDENT STUDY IN PHYSICS

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using

the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

Political Science

PLSC 115 COMPARATIVE GOVERNMENT

Comparative treatment of the government and politics of key countries in Europe, Asia, Africa and the Americas. Examines the history, institutions, policies, and politics of the selected countries. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4)

C-ID: POLS 130

PLSC 130 INTERNATIONAL RELATIONS

Survey of basic elements of international relations, including nationalism, colonialism, and religion in international affairs. Examines such issues as development, population, and environment. Also explores international conflicts, such as between Israel and Palestine. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4)

PLSC 150 INTRO TO POLITICAL THEORY

Introduction to ways of thinking about politics and an exploration of the concepts of political theory. Political

problems will be examined along with consideration of such ideas as political culture and ideology. *Letter Grade Only.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4)

PLSC 200 NATIONAL, STATE AND LOCAL GOVERNMENT

A study of the structure and function of the basic national, state and local government institutions. The course will examine the dynamics of the constitutional power relationship between the respective branches of government and the operational relationship between the national, state and local governments. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 6b2; Area 9D1; Area DUS3

Transfer Credit: CSU (CSU GE Area D US-3), UC (IGETC Area 4)

C-ID: POLS 110

PLSC 210 AMERICAN POLITICS

The study of the historical and constitutional development of the foundations of the United States political institutions and the dynamics of governmental decision-making processes from the colonial era to the present. Examination of the various sources of political attitudes, roles, and behaviors of political participants and ways political decisions are made by the different units of government. *Letter Grade Only.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 6a; Area 9D1; Area DUS1

Transfer Credit: CSU (CSU GE Area D, D US-1, D US-2), UC (IGETC Area 4)

PLSC 280 INTRODUCTION TO POLITICAL PHILOSOPHY

An introduction to political philosophy. Readings and critical discussion of political philosophers (such as Plato, Locke, Rousseau, Marx, and contemporary writers). Topics include theories of human nature, conceptions of justice, the distribution of wealth and power, and the role of markets. Also listed as PHIL 280. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9C2, 9D3

Transfer Credit: CSU (CSU GE Area C2; Area D), UC (IGETC Area 3B; Area 4)

PLSC 301 CALIFORNIA STATE AND LOCAL GOVERNMENT

Examination of local and state governments and their relationship to each other. Among topics to be studied: population growth; initiative process; elections and campaigns; the legislature; the plural executive; California Judiciary; local governments -- counties, cities, school districts, and regional governments; growth and environmental policies; social programs and cultural diversity. *Letter Grade Only.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 6b1; Area 9D1; Area DUS2

Transfer Credit: CSU (CSU GE Area D US-2), UC

PLSC 335 HISTORY AND POLITICS OF THE MIDDLE EAST

Examination of the historical, political, economic and social issues of the Middle East, including the Israeli-Palestinian Conflict and U.S. foreign policy in the area. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9C1

Transfer Credit: CSU (CSU GE Area C2; Area D), UC (IGETC Area 4)

Psychology

PSYC 100 GENERAL PSYCHOLOGY

Introduction to the scientific study of animal and human behavior. Origins and assessment of individual differences in terms of learning, memory, thinking, intelligence, motivation, emotion, perception, and personality. *Letter Grade Only.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4)

C-ID: PSY 110

PSYC 105 EXPERIMENTAL PSYCHOLOGY

Application of scientific methods to psychological research. Fundamentals of experimental design, descriptive and inferential statistics, scientific report writing. Exploration of psychology as a major study and as a profession. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: PSYC 100 and PSYC 171 or MATH 200 or BUS. 123 or equivalent.

Transfer Credit: CSU, UC

C-ID: PSY 200

PSYC 110 COURTSHIP, MARRIAGE AND FAMILY

Examining the social, psychological, historical, legal and economic factors relating to changing family, courtship, heterosexual and same sex marriage and partnership patterns: Exploration of changing gender roles, courtship patterns and parenting will also be included. Emphasis will be placed on diversity of families and family forms. Also listed as SOCI 110. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent. PSYC 100 or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC

C-ID: SOCI 130

PSYC 171 QUANTITATIVE REASONING IN PSYCHOLOGY

Introduction to psychological statistics and measurements essential to understanding statistical and quantitative arguments presented in news accounts, advertising, political campaigns, and popular treatment of psychological research. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 120 or equivalent.

AA/AS Degree Requirements: Area 9A3

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

C-ID: SOCI 125

PSYC 200 DEVELOPMENTAL PSYCHOLOGY

This survey course examines the physical, cognitive and psychological changes that occur across the life span. Theoretical models, influences effecting development, and research relevant to development across the life span will be discussed. *Letter Grade Only.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area E1D), UC (IGETC Area 4)

C-ID: PSY 180

PSYC 201 CHILD DEVELOPMENT

Examination of the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9D3, 9E1

Transfer Credit: CSU (CSU GE Area E1D), UC (IGETC Area 4)

C-ID: CDEV 100

PSYC 220 INTRODUCTION TO PSYCHOBIOLOGY

Survey of central and peripheral nervous system processes underlying the behavior of humans and animals.

Emphasizes evolutionary, genetic, and gender differences underlying social behavior; anatomical and physiological substrates of behavior and consciousness; and neural mechanisms and sensory processes associated with learning, language, perception, motivation, emotion, sleep, speech, and sexuality. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: PSYC 100 or equivalent.

AA/AS Degree Requirements: Area 9B2, 9D1

Transfer Credit: CSU (CSU GE Area B2; Area D), UC (IGETC Area 4; Area 5B)

C-ID: PSY 150

PSYC 230 INTRODUCTION TO CROSS-CULTURAL PSYCHOLOGY

An examination of the diversity of human thought, feeling, and behavior, and the underlying reasons for such diversity. Focuses on the way culture influences human behavior and shapes mental processes. Reviews a variety of theories and research-findings regarding cultural influences on human behavior. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9D3

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4)

PSYC 238 ARAB CULTURAL PSYCHOLOGY

Examination of how Arab culture shapes thought, feeling, and the development of personality. Survey topics in cultural psychology including culture and personality, child rearing, gender relations, identity, family structure and religion. Studying the core value systems associated with the etiquette, beliefs and practices of Arab culture and influences on psychological development in the region. The course will also examine some nonnative perspectives of these core values. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9D1

Transfer Credit: CSU

PSYC 268 BLACK PSYCHOLOGY

Introduction to and exploration of basic and alternative psychological theories and concepts that provide an understanding and appreciation of the psychodynamics of Black America. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4)

PSYC 300 SOCIAL PSYCHOLOGY

An overview of how the individual thinks about, influences and relates to others. Topics include the study of attitudes, self-concept, prejudice and discrimination, conformity and group processes. Upon successful completion of the course students will be able to evaluate how social influences shape behaviors and apply principles of social psychology to everyday life. *Letter Grade Only.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4)

C-ID: PSY 170

PSYC 301 PSYCHOLOGY OF PERSONAL DEVELOPMENT

Study of the ways people adjust to their environments. Emphasis on the ways personality develops and changes. Review of techniques people may use to cope more effectively with stress associated with our complex society. Small group projects may be a part of this course. *Letter Grade Only.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: PSYC 100 or PSYC 108, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D)

PSYC 310 POSITIVE PSYCHOLOGY

Introduces positive psychology, the scientific study of human strengths, well-being and happiness: Surveys the research, theories. Includes ideas about human health and happiness. Includes practice in applying positive psychology principles. Considers such topics as happiness, hope, and wellness promotion. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3**Hours/semester:** 48-54 Lecture; 96-108 Homework**Recommended:** Eligibility for ENGL 100 or ENGL 105, or equivalent.**AA/AS Degree Requirements:** Area 9D3**Transfer Credit:** CSU (CSU GE Area D), UC (IGETC Area 4)**PSYC 390 PSYCHOLOGY OF CONSCIOUSNESS**

A survey of the concepts and characteristics of human consciousness. Topics include the dimensions of the normal waking state as well as altered states of consciousness (e.g., sleep and dreams, hypnosis, meditation, sensory reduction, psychoactive drugs, etc.). In addition, the relationship between the brain and consciousness, the distinction between the conscious and unconscious mind, and other related concepts will be addressed. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 3**Hours/semester:** 48-54 Lecture; 96-108 Homework**Recommended:** Eligibility for ENGL 846 or ESOL 400, or equivalent.**AA/AS Degree Requirements:** Area 9D1**Transfer Credit:** CSU (CSU GE Area D), UC (IGETC Area 4)**PSYC 410 ABNORMAL PSYCHOLOGY**

Examination of disorders listed in the Diagnostic and Statistical Manual of Mental Disorders. Topics include personality disorders, depression, bipolar disorder, anxiety, schizophrenia, and other related disorders. Symptoms, causes, and treatments of each disorder are examined. *Letter Grade Only. Degree Credit.*

Units: 3**Hours/semester:** 48-54 Lecture; 96-108 Homework**Recommended:** Eligibility for ENGL 846 or ESOL 400, or equivalent.**AA/AS Degree Requirements:** Area 9D1**Transfer Credit:** CSU (CSU GE Area D), UC (IGETC Area 4G)**C-ID:** PSY 120**PSYC 665 SPECIAL TOPICS IN PSYCHOLOGY**

Advanced specialized study in psychology. Designed for psychology students and/or students interested in the social sciences such as anthropology, history, and philosophy. Topics will be generated by community, student and faculty interests. Field trips and off-campus investigations may require special planning by the students. May be repeated for credit as topics vary. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 0.5 - 2**Hours/semester:** 8-36 Lecture; 16-72 Homework**Recommended:** Eligibility for ENGL 846 or ESOL 400, or equivalent.**Transfer Credit:** CSU**Real Estate****R.E. 100 REAL ESTATE PRINCIPLES**

Introduction to real and personal property, joint tenancies, partnerships, sales contracts, homesteads, deeds, and taxes. Also included are the basics in financing real estate practices and regulation of the real estate business. Completion of both R.E. 100 and R.E. 110 enables students to satisfy California state requirements for licensing. *Letter Grade Only. Degree Credit.*

Units: 3**Hours/semester:** 48-54 Lecture; 96-108 Homework**Recommended:** Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of MATH 110, or MATH 111 and MATH 112, with a grade of C or better, or equivalent.**R.E. 110 REAL ESTATE PRACTICE**

Real Estate Practice is the practical application of real estate skills in the field and office environments. This course presents the skills, knowledge and abilities needed to work with buyers, sellers, lessors and lessees to ensure success as a realtor. Completion of both R.E. 100 and R.E. 110 enables students to satisfy California state requirements for licensing. *Letter Grade Only. Degree Credit.*

Units: 3**Hours/semester:** 48-54 Lecture; 96-108 Homework**Transfer Credit:** CSU**R.E. 130 CALIFORNIA MORTGAGE LOAN BROKERING & LENDING**

Focusing on the entire mortgage loan process from loan origination to underwriting, finishing with funding and



servicing. The course also covers the marketing of oneself when entering the profession of mortgage loan brokering and lending. Additional topics covered include legal aspects of the business and various forms used within the profession. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

R.E. 131 REAL ESTATE FINANCE I

Practices, customs, and laws relating to mortgage lending and the financing of real estate, with emphasis on financing private houses. (Meets the State requirements as one of two additional courses to move from the initial or temporary salesperson's license to a regular renewable salesperson's license. Accepted for credit for the broker's license.) *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

R.E. 665 SELECTED REAL ESTATE TOPICS

Courses will focus on, explore or introduce selected topics in real estate. Examples include topics such as changes in real estate law and contemporary real estate themes. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1.5

Hours/semester: 8-27 Lecture; 16-54 Homework

Transfer Credit: CSU

Respiratory Care

Admission to this program is by special application only.

RPTH 400 PATIENT & HEALTH CARE CONCERNS

Introduction to the field of Respiratory Care; job responsibility and role within the health care team. Discussion of ethical and legal issues that involve Respiratory Care Practitioners. Discussion of aging, death and dying, and information technologies. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Prerequisites: Admission to the Respiratory Therapy Program.

Transfer Credit: CSU

RPTH 410 INTRODUCTION TO PATIENT CARE & RESPIRATORY ASSESSMENT TECHNIQUES

The study and practice of basic patient care. Also included will be a review of basic science relevant to respiratory therapy and its application to respiratory system assessment. The class will include some hospital practice. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: Admission to the Respiratory Therapy Program.

Transfer Credit: CSU

RPTH 415 RESPIRATORY PHARMACOLOGY

Study of general pharmacology principles, basic terminology, drug action, dosage, adverse reactions, and drug toxicity. Emphasis will include physiologic actions/interactions and cardio-respiratory medication categorization. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Prerequisites: Admission to the Respiratory Therapy Program.

Transfer Credit: CSU

RPTH 420 APPLICATION OF CARDIOPULMONARY ANATOMY & PHYSIOLOGY

Study of the healthy cardiopulmonary system with application to the types of alterations that occur with disease. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Admission to the Respiratory Therapy Program.

Transfer Credit: CSU

RPTH 430 INTRODUCTION TO RESPIRATORY THERAPEUTICS

Study and laboratory practice of basic respiratory care procedures. Oxygen and aerosol therapy, alveolar recruitment therapy, airway clearance procedures, advanced airway management, cleaning and care of respiratory therapy equipment, and introduction to ventilation concepts are included. *Letter Grade Only. Degree Credit.*

Units: 6

Hours/semester: 64-72 Lecture; 96-108 Lab; 128-144 Homework

Prerequisites: Admission to the Respiratory Therapy Program.

Transfer Credit: CSU

RPTH 438 CLINICAL CLERKSHIP I

Supervised experience in the medical/surgical areas of a local hospital, observing and performing respiratory care procedures to non-critical care patients. *Pass/No Pass Only. Degree Credit.*

Units: 1

Hours/semester: 64 Field Experience

Prerequisites: Admission to the Respiratory Therapy Program.

Transfer Credit: CSU

RPTH 445 RESPIRATORY DISEASES I

Using chronic pulmonary disease as models, the student will learn disease terminology, disease classification, history taking and physical examination. Also included will be basic radiologic, clinical and pulmonary diagnostics. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: Admission to the Respiratory Therapy Program.

Transfer Credit: CSU

RPTH 448 CLINICAL CLERKSHIP II

Supervised experience in the medical/surgical patient care areas of a local hospital. Emphasis is on attaining proficiency in skills performed by a Respiratory Care Practitioner in these areas. *Pass/No Pass Only. Degree Credit.*

Units: 2

Hours/semester: 128 Field Experience

Prerequisites: Completion of the first year Respiratory Therapy program.

Transfer Credit: CSU

RPTH 450 RESPIRATORY DISEASES II

Continuation of the study of cardiopulmonary diseases utilizing the model developed in RPTH 445 to include the treatment and pharmacotherapy of selected disorders. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Completion of the first year Respiratory Therapy program.

Transfer Credit: CSU

RPTH 458 CLINICAL CLERKSHIP III

Supervised experience in the adult intensive care unit and/or coronary care unit patient of a local hospital. Emphasis is on attaining proficiency in skills performed by a respiratory care practitioner in these areas. *Pass/No Pass Only. Degree Credit.*

Units: 6

Hours/semester: 16-18 Lecture; 270-320 Field Experience; 32-36 Homework

Prerequisites: Completion of the first year Respiratory Therapy program.

Transfer Credit: CSU

RPTH 460 RESPIRATORY CRITICAL CARE

Study and practice of techniques necessary to provide respiratory care to patients in adult critical care areas. Emphasis includes advanced airway management, ventilator care, respiratory assessment, monitoring and management, and effective communication. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 16-18 TBA; 48-54 Homework

Prerequisites: Completion of the first year Respiratory Therapy program.

Transfer Credit: CSU

RPTH 475 HEMODYNAMIC MONITORING AND SELECTED TOPICS IN RESPIRATORY CARE

The application of advanced principles of cardiopulmonary diagnostics and physiology to the care of critically ill patients. The application of above principles to other body systems. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: Completion of the first year Respiratory Therapy program.

Transfer Credit: CSU



RPTH 480 DIAGNOSTIC TESTING AND OUTPATIENT RESPIRATORY CARE

By learning concepts in various diagnostic testing studies, the student will be able to identify changes in patient's pulmonary status and assist the healthcare team in the outpatient setting to improve patient's quality of life. Fundamental aspects of pulmonary function testing, exercise testing, and metabolic studies, as well as opportunities for Respiratory Therapists in various outpatient settings will be explored. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: Completion of the first year Respiratory Therapy program.

Transfer Credit: CSU

RPTH 485 CLINICAL MEDICINE SEMINAR

Integration of pathology, pathophysiology, diagnostics techniques and therapeutic modalities through the utilization of patient case studies. Preparation for job placement. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: Successful completion of the first year Respiratory Care Program.

Transfer Credit: CSU

RPTH 488 CLINICAL CLERKSHIP IV

Supervised experience in the Adult Intensive Care Unit, Neonatal/Pediatric Care Units of a local hospital and other specialty areas. Emphasis is on attaining proficiency in skills performed by a Respiratory Care Practitioner in these areas. *Pass/No Pass Only. Degree Credit.*

Units: 6

Hours/semester: 384 Field Experience

Prerequisites: Completion of the first year Respiratory Care program.

Transfer Credit: CSU

RPTH 490 NEONATAL AND PEDIATRIC RESPIRATORY CARE

Student will master the basic foundation and competent delivery of respiratory care with this age specific population by applying the normal and abnormal cardiorespiratory anatomy and physiology of the newborn and pediatric patient. This course will give the student the necessary

background to pursue further studies in this specialized area. *Letter Grade Only. Degree Credit.*

Units: 2.5

Hours/semester: 32-36 Lecture; 24-27 Lab; 64-72 Homework

Prerequisites: Completion of the first year Respiratory Care program.

Transfer Credit: CSU

RPTH 495 RESPIRATORY CARE BOARD EXAMINATION PREPARATION AND REVIEW

Preparation and review for the Certified Respiratory Therapist and Registered Respiratory Therapist examinations offered by the National Board for Respiratory Care, and licensure procedures through the Respiratory Care Board of California. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: Completion of the first year Respiratory Therapy program.

Transfer Credit: CSU

RPTH 665 SELECTED TOPICS IN RESPIRATORY CARE

This course is designed to develop specific skills that are utilized in the practice of respiratory care. The course may focus on new areas of practice or specialized skills. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 0.5 - 2

Hours/semester: 8-36 Lecture; 16-72 Homework

Transfer Credit: CSU

RPTH 695 INDEPENDENT STUDY IN RESPIRATORY CARE

Students will reinforce their current knowledge of respiratory care practices in selected areas of basic therapeutics, diagnostic procedures and critical care. Varying modes of instruction will be used – laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may only take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

RPTH B10 ADVANCED CARDIOPULMONARY RESPIRATORY CARE

Provides an analytical framework through which students will expand their knowledge of respiratory diseases, diagnostic procedures, and symptom management. Includes detailed assessment of cardiopulmonary and neurorespiratory diseases, performance of diagnostic testing, medical interventions, and analysis of treatment benefits. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Admission to the Bachelor of Science in Respiratory Care Program; and RPTH 450 or equivalent.

RPTH B15 SLEEP MEDICINE AND RESPIRATORY CARE

Prepares students to apply polysomnography to diagnose sleep disorders. Students will gain knowledge and skills related to the normal development of sleep pattern and demonstrate the ability to identify specific sleep disorders as well as score sleep stages and respiratory patterns. Emphasis is placed on pediatric and adult assessment, monitoring, and sleep disorders. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Admission to the Bachelor of Science in Respiratory Care Program; and RPTH 450 or equivalent.

RPTH B20 ADVANCED RESPIRATORY CASE MANAGEMENT

Applied case management in Respiratory Care highlighting facilitation, integration, coordination and transition of patients through the continuum of care. Students effectively apply strategies for collaboration between the case manager, the client, the payer and appropriate service personnel, in order to optimize the outcome while maintaining client privacy and confidentiality, health, and safety through advocacy and adherence to ethical, legal, accreditation, certification and regulator standards or guidelines. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Admission to the Bachelor of Science in Respiratory Care Program; and RPTH 485 or equivalent.

RPTH B30 PRINCIPLES OF HEALTH EDUCATION

Provides an analytical framework to teach adult learning theory and prepare the student to teach effectively in healthcare and classroom settings. Topics include learning styles, curriculum development, effective teaching techniques, and assessment of learning. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Admission to the Bachelor of Science in Respiratory Care Program; and RPTH 485 or equivalent.

RPTH B40 HEALTH CARE RESEARCH DESIGN AND METHODOLOGY

Analysis of research design and methodology in health care and health sciences. Emphasis will include research evaluation and interpretation of results, design methodology, the planning and approval process, data collection and analysis, and communication and presentation of the results. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Admission to the Bachelor of Science in Respiratory Care program and completion of, or concurrent enrollment in, MATH 200

RPTH B50 RESPIRATORY CARE LEADERSHIP AND MANAGEMENT I

Leadership and management theories in effective practices in the healthcare setting. Organizational structure of current healthcare models are discussed. Emphasis is placed on development of skills in leadership, communication, time management, problem solving, motivation and other critical competencies. Specific attention is focused on the role of leadership, along with specific functions and operations, in a Respiratory Care Department. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Admission to the Bachelor of Science in Respiratory Care Program; and RPTH 485 or equivalent.

RPTH B52 RESPIRATORY CARE LEADERSHIP AND MANAGEMENT II

Application of advanced level of skills learned in Respiratory Care Leadership and Management I through case based model approach in various aspects of providing respiratory health care management. Students will identify and apply strategic models to analyze problems, formulate solutions, and make sound decisions. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Admission to the Bachelor of Science in Respiratory Care Program; and RPTH 485 or equivalent.

RPTH B60 ADVANCED NEONATAL AND PEDIATRIC RESPIRATORY CARE

Advanced concepts of neonatal and pediatric respiratory care. Emphasis placed on neonatal and pediatric pathophysiology and on specific therapeutic needs of neonates and children. Students will demonstrate competence in assessment skills, formulation of treatment plans, and application of specific respiratory care modalities for neonatal and pediatric patients. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 40-45 Lecture; 24-27 Lab; 80-90 Homework

Prerequisites: Admission to the Bachelor of Science in Respiratory Care Program; and RPTH 490 or equivalent.

RPTH B90 RESPIRATORY CARE CAPSTONE PROJECT

Capstone course in Respiratory Care focused in areas of advanced cardiopulmonary respiratory care, leadership and management, case management, research, education, or other special area of interest. Student will identify and complete a project applying knowledge and skills learned in the program. Projects will be developed in collaboration with faculty and community members and are aligned with student area of interest. *Letter Grade Only. Degree Credit.*

Units: 2.5

Hours/semester: 8-9 Lecture; 128 Field Experience; 16-18 Homework

Prerequisites: RPTH B10 and RPTH B15 and RPTH B20 and RPTH B30 and RPTH B40 and RPTH B50 and RPTH B52 and RPTH B60 and COMM B10 and COUN B10 and PHIL B10 and SOCI B10 and SOSC B10

Social Justice Studies

SJS 110 INTRODUCTION TO SOCIAL JUSTICE STUDIES

An interdisciplinary study of race and ethnicity, and its intersections with gender and class in the United States. Examines social justice movements in relation to ethnic and racial groups in the United States to provide a basis for a better understanding of the socio-economic, cultural and political conditions among key social groups. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5a; Area 9D3

Transfer Credit: CSU (CSU GE Area D)

C-ID: SJS 130

SJS 130 INTRODUCTION TO LGBTQ STUDIES

Introduction to key themes and critical frameworks in Lesbian, Gay, Bisexual, Transgendered, and Queer (LGBTQ) Studies. Topics include histories of sexuality; forms of oppression including heterosexism, homophobia, and transphobia; resistance to oppression; violence against LGBTQ people; queer activism; diverse experiences of sexuality; and representations in literature, art, and popular media. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5a

Transfer Credit: CSU

C-ID: SJS 110

Social Science

SOSC 270 THE CIVIL RIGHTS MOVEMENT

A survey of the social, economic and political history of the Civil Rights Movement in the United States through the perspective of major events that took place within this movement in the 1950's and 1960's. Study of the principles of non-violence and their application in the movement. An examination of how bigotry, discrimination, hatred and

violence affect society. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b

Transfer Credit: CSU, UC (IGETC Area 4)

SOSC 659 LIFE AND CULTURE OF THE LOCAL AREA - CUBA

Challenges students to expand their global perspective while exploring life and culture in Cuba. Through direct engagement with the people and places of the host country, students will improve their knowledge of local culture and geography, their ability to communicate across cultural boundaries and prepare themselves for success with increased cultural competency. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

SOSC B10 PUBLIC HEALTH POLICY

Exploration of public health policy, examining core topics in the study of health and health care delivery. Diverse perspectives on health care policy will be examined from an interdisciplinary approach. Students will develop an understanding of fundamental ideas and problems in the areas of health and medical care. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Admission to the Bachelor of Science in Respiratory Care Program; and SOCI 100 or HSCI 135 or PHIL 100 or PHIL 240 or PLSC 210 or PLSC 200 or equivalent.

Sociology

SOCI 100 INTRODUCTION TO SOCIOLOGY

An introduction to the scientific study of how people organize themselves and interact in social settings. It encourages students' curiosity about society and sociological analyses of current social issues. It fosters an appreciation of cross-cultural perspectives and allows people to distinguish between personal troubles and public

issues. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4)

C-ID: SOCI 110

SOCI 105 CONTEMPORARY SOCIAL ISSUES

Examination of selected social issues viewed in relation to changes going on in society, including poverty, aging, health care, corporate power and work. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9D3

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4G)

C-ID: SOCI 115

SOCI 108 COMMUNITY RELATIONS

Study of the complex and dynamic relationship between the criminal justice system and the widely diverse multicultural society it serves in addressing crime and conflict. Emphasis will be on the roles and interaction of administration of justice practitioners and their agencies in the community, the challenges and prospects of administering justice within a diverse multicultural population, crime prevention, restorative justice, conflict resolution, and professional ethics in justice administration. Also listed as ADMJ 108. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. Completion of, or concurrent enrollment in SOCI 100 or ADMJ 100, or equivalent.

Transfer Credit: CSU, UC

C-ID: AJ 160

SOCI 110 COURTSHIP, MARRIAGE AND FAMILY

Examining the social, psychological, historical, legal and economic factors relating to changing family, courtship, heterosexual and same sex marriage and partnership patterns: Exploration of changing gender roles, courtship

patterns and parenting will also be included. Emphasis will be placed on diversity of families and family forms. Also listed as PSYC 110. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent. PSYC 100 or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC

C-ID: SOCI 130

SOCI 129 INTRODUCTION TO RESEARCH METHODS

Examination of basic principles and methods of sociological research. Application and critique of major research methods, including survey, ethnographic, experimental, discourse, and historical comparative analysis. Identifying fundamental components of sociological research design, such as theory, hypothesis, and variables. Ethical and political implications of social research are also considered. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: SOCI 100 or equivalent.

Recommended: MATH 200 or equivalent.

Transfer Credit: CSU, UC

C-ID: SOCI 120

SOCI 141 RACE AND ETHNICITY

An introduction to sociological analysis of racial and ethnic construction and its impacts on various social institutions. Exploration of cultural, political, historical, and ideological factors affecting race and ethnic relations. Examination of contemporary forms of racism that affect marginalized racial and ethnic groups in America, and methods to challenge racism and racial inequality. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5a; Area 9D3

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4G)

C-ID: SOCI 150

SOCI 142 FILIPINA/O COMMUNITY ISSUES

An introduction to understanding the sociological, cultural, and psychological aspects of Filipina/o Americans. Using both sociological and psychological frameworks, the course will explore the effects of Spanish and American colonialism; diaspora; assimilation, and decolonization. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5b; Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4)

SOCI 143 SOCIOLOGY OF MIGRATION AND IMMIGRATION

An introduction to the interdisciplinary study of human migratory movement and immigrant settlement. Using sociological perspectives and research from biology, anthropology, geography, history, sociology, psychology and political science, the course will examine human migration patterns, environmental conditions, political context, economic factors and cultural identity. Students may have the opportunity to trace their ancestor's migration patterns. *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 9D1

Transfer Credit: CSU (CSU GE Area D), UC (IGETC Area 4)

SOCI 160 SOCIOLOGY OF SEX AND GENDER

Analysis of biological concepts of sex and social constructs of gender, both at a macro level (economy, politics and religion) as well as a micro level (interpersonal relations, power, and sexual identities). Its primary focus will be contemporary United States society, but will include a historical and global comparative analysis. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5a; Area 9D3, 9E1

Transfer Credit: CSU (CSU GE Area E1D), UC (IGETC Area 4G)

C-ID: SOCI 140

SOCI 201 SOCIOLOGY OF HEALTH AND MEDICINE

This course explores sociological perspectives and methods on the study of health and medical practice. Through independent research and analysis it fosters in students an understanding of the social facets of health and disease, the social behavior of health care personnel and people who utilize health care, the social functions of health organizations and institutions, the social patterns of health services, and the relationship of health care delivery systems to other systems and cultures. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or ENGL 105, or equivalent.

AA/AS Degree Requirements: Area 5a; Area 9D3

Transfer Credit: CSU (CSU GE Area D)

SOCI B10 INTERSECTIONALITY AND CITIZENSHIP

Exploration of the intersection of identities: race, ethnicity, socioeconomic class, gender, and citizenship status. Students will explore and analyze how race and ethnicity are socially constructed and intersect with identities such as class and gender. Provides students theoretical frameworks for assessing these constructs and their consequences. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Admission to the Bachelor of Science in Respiratory Care program; and ENGL 100 or ENGL 105 or equivalent; and SOCI 100 or PSYC 100 or equivalent.

Spanish

Language Lab and Listening Requirement: Students enrolled in foreign language courses are required to make use of the language lab as prescribed by each department. Imitation, response, and independent practice are integral features of the study of a foreign language at the College.

SPAN 110 ELEMENTARY SPANISH

Spanish structures and active vocabulary based on oral and written pattern drills. Conversation based on short dialogues containing only structures already practiced. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 6A)

C-ID: SPAN 100

SPAN 111 ELEMENTARY SPANISH I

The first course in a two-semester sequence covering the same course materials as SPAN 110. Students starting this sequence must complete SPAN 112 prior to attempting SPAN 120. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

AA/AS Degree Requirements: Area 9C1

Transfer Credit: CSU (CSU GE Area C2), UC

SPAN 112 ELEMENTARY SPANISH II

The second course in a two-semester sequence covering the same course materials as SPAN 110. Students starting this sequence must complete SPAN 111 and SPAN 112 prior to attempting SPAN 120. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: SPAN 111 or equivalent.

Transfer Credit: CSU (CSU GE Area C2), UC

SPAN 120 ADVANCED ELEMENTARY SPANISH

Students practice and develop further communicative competence in written and spoken Spanish for use in a variety of social contexts and settings. Readings are used as the basis of classroom discussions. Cultural aspects of the Spanish-speaking-world are emphasized. The course is conducted primarily in Spanish. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Prerequisites: SPAN 110 or SPAN 112 or equivalent college-level course.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B; Area 6A)

C-ID: SPAN 110

SPAN 121 ADVANCED ELEMENTARY SPANISH I

For students who can use Spanish to communicate about the "here and now" and relate a simple story in the past. Students practice and develop further communicative competence in written and spoken Spanish for use in a variety of social contexts and settings. Readings are used as the basis of classroom discussions. Cultural aspects of the Spanish-speaking-world are emphasized. The course is conducted primarily in Spanish. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: SPAN 110 or SPAN 112 or equivalent college-level course.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B; Area 6A)

SPAN 122 ADVANCED ELEMENTARY SPANISH II

For students who can use Spanish to communicate about the "here and now" and relate a simple story in the past. Students practice and develop further communicative competence in written and spoken Spanish for use in a variety of social contexts and settings. Readings are used as the basis of classroom discussions. Cultural aspects of the Spanish-speaking-world are emphasized. The course is conducted primarily in Spanish. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: SPAN 121 or equivalent

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B; Area 6A)

SPAN 130 INTERMEDIATE SPANISH

Practice of conversation and composition; review of grammar; reading and discussion of Spanish and Latin-American literature and culture. This course will be taught in Spanish. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Prerequisites: SPAN 120 or SPAN 122 or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B; Area 6A)

C-ID: SPAN 200

SPAN 140 ADVANCED INTERMEDIATE SPANISH

Advanced intermediate Spanish course that offers further practice of conversation and composition based on class readings of works of modern Spanish and Latin American authors; review of grammar; collateral reading of Latin American literature. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Prerequisites: SPAN 130 or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B; Area 6A)

C-ID: SPAN 210

SPAN 160 READINGS IN LITERATURE IN SPANISH

Study of the literary trends and some of the best novels, poetry, and short stories that exemplify Spanish American literature of the 19th, 20th and 21st centuries. Students will become familiar with the cultural, sociological, historical, and political framework of the time the stories discussed take place; and analyze the concerns that the writings approach. Consequently, this course shows how the literature reflects the fantastic reality of the Spanish American world. Cultural aspects of the Spanish-speaking-world are highlighted. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Prerequisites: SPAN 140 or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B; Area 6A)

SPAN 220 SPANISH FOR SPANISH SPEAKERS I

Designed for students who speak and understand basic Spanish because of life experience, but who also need practice in reading and writing Spanish and want to improve their knowledge/command of grammar and other linguistic features. Students practice and develop improved communicative competence in written and spoken Spanish for use in a variety of social contexts, settings, and registers. Readings are used as the basis of classroom discussions and writing practice. Cultural aspects of the Spanish-speaking world are emphasized. The course is conducted

primarily in Spanish. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Prerequisites: SPAN 120 or SPAN 122 or equivalent.

Recommended: SPAN 110 or SPAN 112 or equivalent.

AA/AS Degree Requirements: Area 9C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B; Area 6A)

C-ID: SPAN 220

SPAN 230 SPANISH FOR SPANISH SPEAKERS II

Designed primarily for Spanish speaking students who are comfortable with oral communication. This course includes vocabulary development, spelling and accents, registers, dialectal variation, cultural readings and introduction to Spanish language literature of South America. Students expand on their own experience and values, and develop an appreciation of the diversity of the various Latino cultures and their influence in the US. Class is conducted entirely in Spanish. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Recommended: SPAN 220 or equivalent.

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B; Area 6A)

C-ID: SPAN 230

SPAN 695 INDEPENDENT STUDY IN SPANISH

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

Surgical Careers

See also listings under Anesthesia Technology.

SURG 440 BASIC SCIENCES FOR SURGICAL TECHNOLOGY

This course reviews human anatomy and physiology for surgical procedures and common disease states requiring surgical intervention. The course also covers medications used during surgery. Concepts of microbiology and basic physics are discussed as they are applied to operating room procedures and practices. *Letter Grade Only. Degree Credit.*

Units: 6.5

Hours/semester: 96-108 Lecture; 24-27 Lab; 24-27 TBA; 168-189 Homework

Prerequisites: Admission to the Surgical Technology Program.

SURG 441 SURGICAL PATIENT CARE CONCEPTS

Provides the student with a theoretical and practical understanding of the technology and practices used in caring for a patient undergoing a surgical procedure. Additional material covers the structure and function of a healthcare facility and specifically the Operating Room. *Letter Grade Only. Degree Credit.*

Units: 5.5

Hours/semester: 88-99 Lecture; 176-198 Homework

Prerequisites: SURG 440 or equivalent.

Corequisites: SURG 451

SURG 442 SURGICAL SPECIALTIES

This class covers the most common procedures and equipment utilized by the surgical technologist during specialty surgery. These specialties include neurosurgery, vascular surgery, orthopedic surgery and others. The course prepares the student for the national certification exam. *Letter Grade Only. Degree Credit.*

Units: 6

Hours/semester: 96-108 Lecture; 192-216 Homework

Prerequisites: SURG 440 and SURG 441 or equivalent.

SURG 443 CLINICAL PRACTICE FOR SURGICAL TECHNOLOGY

This class provides the student with hands-on experience in the surgical suite caring for patients under the supervision of a surgical technologist or a registered nurse. They will also gain experience in patient and staff interaction and



communication. It prepares the student for the national certification examination. Prerequisite: Completion of Surg 440 and 441 with a grade of C or better and a current healthcare provider CPR card. *Pass/No Pass Only. Degree Credit.*

Units: 8

Hours/semester: 512 Work Experience

Prerequisites: SURG 440 and SURG 441 or equivalent; and a current healthcare provider CPR card.

SURG 445 INTRO TO CENTRAL SERVICE TECHNOLOGY

The first of three courses providing an introduction to concepts and practical applications of central service processing, distribution and instrumentation. This includes basics of human anatomy, infection control, aseptic technique, sterile processing, decontamination and disinfection. *Letter Grade Only. Degree Credit.*

Units: 6.5

Hours/semester: 64-72 Lecture; 120-135 Lab; 128-144 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

SURG 446 CLINICAL PRACTICE FOR CST

The third of three courses in Central Service Technology. Provides the student with supervised experience in sterile processing, supply distribution and inventory control. *Pass/No Pass Only. Degree Credit.*

Units: 3

Hours/semester: 192 Work Experience

Prerequisites: SURG 448 or equivalent.

SURG 448 CLINICAL LAB PRACTICUM FOR CENTRAL SERVICE TECHNOLOGY

The second of three courses provides the student with hands-on experience in the processing of surgical instruments and medical supplies for disinfection and/or sterilization in a simulated lab and prepares them for the program's clinical phase. The student will practice decontamination, disinfection, inspection, packaging, and sterilization of selected items. *Pass/No Pass Only. Degree Credit.*

Units: 2

Hours/semester: 96-108 Lab

Prerequisites: SURG 445 or equivalent.

SURG 451 SURGICAL SKILLS LAB

Student practices the clinical skills required to demonstrate competency in the operating room. Skills include, but are not limited to, aseptic practices such as scrubbing, gowning and gloving, setting up the instrument table, positioning the patient, and passing instruments supplies and medications to the surgeon. Prepares the student for clinical internship. *Pass/No Pass Only. Degree Credit.*

Units: 5.5

Hours/semester: 264-297 Lab; 24-27 TBA; -24--27 Homework

Prerequisites: SURG 440 or equivalent.

Corequisites: SURG 441

SURG 455 CERTIFIED SURGICAL TECHNOLOGIST (CST) EXAM PREPARATION

Preparation and review for the Certified Surgical Technologist (CST) examination offered by the National Board of Surgical Technology and Surgical Assisting. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5

Hours/semester: 24-27 Lab

Prerequisites: SURG 442 and SURG 443 or equivalent.

SURG 665 SELECTED TOPICS IN SURGICAL TECHNOLOGY AND CENTRAL SERVICE/STERILE PROCESSING

Designed to develop specific skills that are utilized in the practice of surgical and central service technology. Topics will rotate and will focus on new areas of practice or specialized skills. *Grade Option (Letter Grade or Pass/No Pass).*

Units: 0.5 - 2

Hours/semester: 8-36 Lecture; 16-72 Homework

Wellness

See also listings under Cosmetology.

WELL 665 SELECTED TOPICS IN WELLNESS

Short courses designed to increase or develop new skills and knowledge related to self enhancement; information for students interested in exploring career opportunities in the Massage/Spa/Wellness fields. Some classes may go beyond the introductory level to assist students and working professionals in expanding current knowledge and skills. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 2

Hours/semester: 8-36 Lecture; 16-72 Homework

WELL 700 MASSAGE THEORY AND PRACTICE I

Exploring massage by introducing students to the history, knowledge, skill development, and practice associated with the massage therapy profession. Topics include massage theory, practical experience, Swedish/relaxing massage techniques as well as fundamentals of deep pressure and an introduction to other popular massage modalities. Students also explore professional standards, ethics, musculoskeletal and associated anatomical and physiological systems among other related topics. *Letter Grade Only. Degree Credit.*

Units: 3.5

Hours/semester: 48-54 Lecture; 24-27 Lab; 96-108 Homework

Prerequisites: Admission to massage therapy program by special application.

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

WELL 703 HOLISTIC HEALTH SCIENCE

Holistic approach to understanding the structure and function of the human body, incorporating Western and Eastern perspectives of anatomy, physiology, and medical terminology of all the systems. Emphasis is on the fundamental understanding of clinical applications and related physiological indications and implications of massage/manual therapy associated with various integrative therapies. Understanding of science and other respective traditional medical philosophies regarding anatomy and physiology supports greater communication among multi-disciplined practitioners within this profession. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

WELL 704 MASSAGE TECHNIQUES AND CLINICAL/SPA EXPERIENCE

Explores specific bodywork techniques with emphasis on grounding, quality of touch, connection, proper application of technique/s, palpation, draping, body mechanics, self-care, and injury prevention. Developing and practicing these various techniques to expand and cultivate the ability to implement bodywork based upon individualized needs while fostering effective communication, assessment and

treatment strategies. Skills will be practiced on the general public in a state of the art professional setting. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3.5

Hours/semester: 48-54 Lecture; 24-27 Lab; 96-108 Homework

Prerequisites: Admission to the Massage Therapy Program by special application.

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

WELL 705 MASSAGE THEORY AND PRACTICE II

Exploring massage therapy by further integrating spa and clinical perspectives associated with professional disciplines, knowledge, skill development, assessment and practice. Marketing, business, government laws and regulations, and maintaining proper documentation will be discussed. Topics include greater depth in massage theory, deep tissue massage techniques, tissue manipulations, and massage associated specifically to various special populations (athletes, physically challenged, among others). *Letter Grade Only. Degree Credit.*

Units: 3.5

Hours/semester: 48-54 Lecture; 24-27 Lab; 96-108 Homework

Prerequisites: Completion of or concurrent enrollment in, WELL 700 and WELL 703 or CAMTC approved school equivalent.

WELL 706 INTRODUCTION TO REFLEXOLOGY

Exploration of the history, theory, and techniques of reflexology, and how reflex points relate to the body. Learn to apply individualized assessment criteria and associated techniques with various sequences of reflexology in conjunction with hand and foot massage. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

WELL 707 FOUNDATIONS OF AROMATHERAPY AND ESSENTIAL OILS

Exploration of the history and use of essential oils, focusing on physiological function, extraction methods, safety, storage and purity. Study of selecting essential oils, dilutions in carrier oils, blending, and their different therapeutic



properties for sustainable health and well-being. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

WELL 708 PATHOLOGY AND PHARMACOLOGY FOR MASSAGE THERAPISTS

An integrative perspective on the causes and effects of disease and the disease process in the context to the massage therapy profession. Focus on physiological mechanisms, disease states and symptoms, clinical assessments and indications / contraindications associated with diseases and disorders. Basic principles of pharmacology and commonly prescribed pharmaceuticals are also covered. This course cultivates greater understanding, dialogue and collaboration between clients/patients and holistic medicine health care professionals. This course does not teach students to diagnose since that is outside the scope of practice for massage therapy. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: WELL 703 or , BIOL 250 or equivalent Anatomy and Physiology coursework taken at a CAMTC-approved or other regionally accredited institution.

WELL 710 CLINICAL KINESIOLOGY AND APPLIED BIOMECHANICS FOR MANUAL THERAPY

Client assessment through palpation of the structures and landmarks of the human body. Examination and analysis of the functional movements required for assessments. Applied biomechanics specific to neurological and musculoskeletal systems. Palpation skills include functional range of motion assessments such as motion implementation, manual muscle testing, and goniometer readings, among other assessment skills. Principles of structural kinesiology are presented in relation to functional mobility, body mechanics, gait, applied biomechanical analysis and joint specific palpation skills. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: WELL 703, or BIOL 250, or an equivalent courses taken at a CAMTC-approved institution.

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

WELL 711 SPORTS MEDICINE AND MANUAL THERAPY

Introduction to the theory and practice of various manual therapy techniques used in sports medicine, including sports, trigger point, neuromuscular therapy, and facilitated stretching among others. Emphasis is on critical assessment skills for common conditions/injuries and evaluation to determine the treatment strategy/session planning for implementing manual therapy and massage techniques. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3.5

Hours/semester: 48-54 Lecture; 24-27 Lab; 96-108 Homework

Prerequisites: WELL 703 or equivalent Anatomy and Physiology course taken at a community college or CAMTC-approved institution or BIOL 250

WELL 713 ASIAN BODYWORK TRADITIONS THEORY AND PRACTICE

Exploring the foundations of Shiatsu theory, physiological and psychological effects, emerging styles of contemporary Shiatsu modalities, Chinese acupressure, and integrated pressure techniques. Bodywork assessment, treatment strategies using Shiatsu and acupressure points. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent. , WELL 721 or WELL 725 or WELL 740 or equivalent.

Transfer Credit: CSU

WELL 714 MASSAGE THERAPY EXAM PREPARATION

Preparation and review for the Massage and Bodywork Licensing Exam. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: WELL 705 and WELL 708 and WELL 710 and WELL 711 and WELL 725 or completion of a minimum of 500 hours at a CAMTC-approved school.

WELL 715 INTEGRATED MASSAGE AND MANUAL THERAPY TECHNIQUES

Explores integrating various bodywork techniques implemented within spa, clinical and private practice employment environments. Reinforces palpation,

functional assessment skills, body mechanics and practicing integrating these various techniques to expand and cultivate the ability to implement bodywork based upon individualized needs. Fostering effective communication, assessment and treatment strategies. Skills will be practiced on the general public in a state of the art professional setting. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 40-45 Lecture; 24-27 Lab; 80-90 Homework

Prerequisites: WELL 705 or certification as a massage therapist, or previous massage therapy training in Swedish and deep tissue techniques and education.

WELL 717 ONCOLOGY MASSAGE

Exploration of the art of touch to create effective and safe massage treatment strategies/sessions associated with oncology. Introduction to guidelines for a range of bodywork that can be used effectively within hospital, private practice, and hospice settings. Review standards of care for cancer patients, research protocols, and other topics related to cancer treatment and survivorship. Focus on body positioning, pressure, and safety aspects working with and around medical devices, hospital standard precautions, inpatient and outpatient care, as well as reviewing medical records for patient information to modify massage treatments based on surgery, radiation therapy, and chemotherapy. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: WELL 703 and WELL 704 and WELL 705 and WELL 708 or equivalent; or a CAMTC-certified massage therapist already practicing.

WELL 718 STRESS MANAGEMENT TECHNIQUES FOR HEALTH AND WELLNESS

Exploring stress management techniques providing support when dealing with challenging situations associated with every-day stress. Learning the sources of stress, physiological implications, prevention and various stress reducing techniques. Meditation, breathing, and guided visualization techniques, among other stress reduction modalities. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU (CSU GE Area E1)

WELL 721 FOUNDATIONS OF AYURVEDIC AND CHINESE MEDICINE THEORY

Exploration of the basic principles and practices of Ayurvedic and Chinese medical theories and their view of the human body as fields of shifting and flowing energy in dynamic relationship with nature and the Universe. Comparative perspectives and benefits of these therapeutic approaches, including channels (meridians - TCM, srotamsi and nadis in Ayurvedic), and points (acupoints and marma), essential oils, the use of finger pressure points and various massage techniques in traditional Ayurvedic and Chinese medicine theories. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

WELL 723 AYURVEDIC AROMATHERAPY

Ayurvedic aromatherapy is an ancient healing technique with emphasis on using essential oils to bring the body into balance for health and healing. Focus on Ayurvedic foundations, concepts of Dosha, and use of essential oils to support the immune system and counterbalance stress and anxiety. Addresses how and what essential oils are appropriate to balance Chakras and individualized Dosha constitutions for maintaining health and wellness. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

WELL 725 INTRODUCTION TO CONSCIOUSNESS, INTENT AND MEDITATION

Explores energy therapies and consciousness from Eastern and Indigenous traditions of healing and how levels of consciousness are nurtured and cultivated through dynamic relationships between mind, body, and spirit. The focus is to understand energy therapies, its relevance to consciousness and its dynamic relationship with intent and meditation from multiple cultural perspectives. Learning how to integrate these methods into our personal and professional lives to promote individual wellness, health and healing. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3



Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

WELL 730 GLOBAL PERSPECTIVES OF MEDITATION

Exploring different global perspectives of meditation that fosters self-discovery and expands personal awareness of the health and healing benefits. Designed for the beginning meditator to the healing professional we will implement various meditation approaches that one can choose to practice that fits their lifestyle needs for overall health and healing. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

WELL 731 INTRODUCTION TO SOUND HEALING

Discover sound and healing from comparative global perspectives fostering self-discovery and expanding awareness of traditional knowledge identifying sound as an integral part of healing. Transmit experiential techniques and insights to implement and understand sound and its dynamic relationship with our overall health and wellness. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

WELL 732 INTRODUCTION TO QIGONG/QI GONG

Exploration of fundamental Qigong theories and practice. Students learn Chinese Medicine perspectives which combine mental focus, intention, breath and movement to cultivate energy and create a state of balance among mind, body and spirit. Emphasis on understanding the concepts, cultural heritage, and application of specific Qigong forms for prevention, health and healing. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5

Hours/semester: 8-9 Lecture; 16-18 Homework

WELL 733 TAI CHI FOR HEALTH

Exploration of the history, cultural heritage and theories associated with simple short form (24) movement

techniques of Yang style Tai Chi. Principles of Tai Chi from its roots in the East, including Western perspectives. Focus on the interrelationship between mind, body and spirit, and the cultivation of internal Qi by using breath and movement to improve and maintain optimal health and well-being. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

WELL 740 CONSCIOUS EATING: A SUSTAINABLE APPROACH TO HEALTH AND HEALING

Explores the connection between our health and eating from various cultural perspectives. Demystifying food used for healing from global medicinal perspectives comparing similarities and differences. Encompassing dynamic relationships between the food we eat, our consciousness, attitudes and the environment with which we live and how it relates to our health. Providing greater clarity and more informed choices promoting a sustainable approach to health and healing. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

WELL 742 HERBAL/BOTANICAL MEDICINE AND ETHNOBOTANY

An introductory overview of various traditional herbal medicine practices, history, and theories. Focus on botanical medicine, ethnobotany, homeopathy, and Chinese and Ayurveda perspectives. The political, socioeconomic, and environmental influences in preserving the cultural heritage of medicinal plants and associated traditional medicine systems will also be covered, along with contemporary herbal practices and related professions. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

WELL 760 INTRODUCTION TO HOLISTIC, COMPLEMENTARY AND INTEGRATIVE HEALTH/ MEDICINE

Interdisciplinary survey of various holistic health disciplines, their history, philosophy, theory, and practice in complementary and integrative medicine (CIM) currently used in the United States. Topics may include osteopathic, chiropractic, naturopathic, homeopathic, mind-body medicine, acupuncture, yoga, massage, and meditation, among others. Overview of research, increasingly showing efficacy, for many of these associated therapies. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.

Transfer Credit: CSU

WELL 765 EVERYDAY USES OF HERBS

Designed to explore the use of herbs to maintain health and well-being. Topics include the history, categories, selection process, preparation methods, indications/ contraindications with everyday use of herbs. Students are aware that they do not diagnose or prescribe herbs. The knowledge gained can be use in conjunction with, not in lieu of, one's health care provider. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 846 or ESOL 400, or equivalent.