

Addendum



2020-2021
Catalog

CREDIT COURSES

ACCTG 120

COMPUTERIZED ACCOUNTING SYSTEMS

Recommended Preparation: ACCTG 101 or 110 or equivalent experience in accounting.

ACCTG 121

ADVANCED COMPUTERIZED ACCOUNTING

Recommended Preparation: ACCTG 101, ACCTG 110, ACCTG 120, or STV 97, or equivalent.

ADMJ 134

REPORT WRITING

Recommended Preparation: ENGL 100 or ESL 141, or equivalent.

ARCH 101

DRAFTING AND BASIC DESIGN

Recommended Preparation: ART 130 and ENGL 100 or ESL 141.

ARCH 102

ARCHITECTURAL DRAFTING AND DESIGN

Prerequisite: ARCH 101 or equivalent. **Recommended Preparation:** ENGR 109 or ARCH 250.

ARMEN 115

ARMENIAN FOR THE ARMENIAN SPEAKING I

Note: This course may not be taken for credit by students who have completed ARMEN 101 or 102. Students with oral proficiency or who have attended schools where Armenian was the language of instruction can enroll in ARMEN 115 after completing a placement test to determine their fluency level. **Recommended Preparation:** ENGL 100 or ESL 141.

ARMEN 116

ARMENIAN FOR THE ARMENIAN SPEAKING II

Note: This course may not be taken for credit by students who have completed ARMEN 101 or 102. Students with oral proficiency or who have attended schools where Armenian was the language of instruction can enroll in ARMEN 116 after completing a placement test to determine their fluency level.

ARMEN 117

ARMENIAN FOR THE ARMENIAN SPEAKING III

Note: Students with oral proficiency or who have attended schools where Armenian was the language of instruction can enroll in ARMEN 117 after completing a placement test to determine their fluency level.

ARTH 101

ART HISTORY: PREHISTORIC GOTHIC

Change in prefix, was ART 101. **Recommended Preparation:** ENGL 101.

ARTH 101H

HONORS ART HISTORY: PREHISTORIC GOTHIC

Change in prefix, was ART 101H. **Recommended Preparation:** ENGL 101.

ARTH 102

ART HISTORY: RENAISSANCE-MODERN

Change in prefix, was ART 102. *Recommended Preparation:* ENGL 101.

ARTH 102H

HONORS ART HISTORY: RENAISSANCE-MODERN

Change in prefix, was ART 102H.

ARTH 103

ANCIENT ART

Change in prefix, was ART 103. *Recommended Preparation:* ART 101 or ARTH 101.

ARTH 104

GREEK AND ROMAN ART

Change in prefix, was ART 104.

ARTH 105

MEDIEVAL ART

Change in prefix, was ART 105. *Recommended Preparation:* ART 101 or ARTH101.

ARTH 106

RENAISSANCE/BAROQUE ART

Change in prefix, was ART 106.

ARTH 107

MODERN ART

Change in prefix, was ART 107. *Recommended Preparation:* ENGL 101.

ARTH 108

ART OF THE EASTERN WORLD

Change in prefix, was ART 108. *Recommended Preparation:* ENGL 101.

ARTH 111

HISTORY OF WORLD CERAMICS

Change in prefix, was ART 111.

ARTH 112

PRECOLUMBIAN ART OF THE AMERICAS

Change in prefix, was ART 112. *Recommended Preparation:* ENGL 101.

ARTH 113

AMERICAN ART

Change in prefix, was ART 113.

ARTH 115

SURVEY OF NON-WESTERN ART HISTORY

Change in prefix, was ART 115.

ARTH 116**ART OF AFRICA, OCEANIA, AND NORTH AMERICA**

Change in prefix, was ART 116. *Recommended Preparation:* ENGL 101.

ARTH 118**WOMEN IN VISUAL ARTS**

Change in prefix, was ART 118.

ARTH 119**CONTEMPORARY ART**

Change in prefix, was ART 119.

ARTH 120**HISTORY OF WESTERN ARCHITECTURE FROM PREHISTORY TO 1300**

Change in prefix, was ART 120.

ARTH 121**HISTORY OF ARCHITECTURE II**

Change in prefix, was ART 121.

ARTH 125**MOTION PICTURE HISTORY AND CULTURE**

Change in prefix, was ART 125.

ARTH 196**ADVANCED EARTHENWARE**

ARTH 196 is an advanced course in ceramics, dealing specifically with earthenware, or low-fired ceramics. Students experiment with earthenware clay bodies, glazes, underglazes, and slips. Students propose an individual research project to study a specific earthenware technique in depth. Students may choose to focus on glaze formulation and testing, underglazing, majolica (in-glaze painting), or overglazing (lusters, China paints, and decals). Students learn technique specific loading and firing techniques for the electric kiln. Oxidation firing effects will be explored.

ARTH 199**HISTORY OF PHOTOGRAPHY**

Change in prefix, now ARTH 199.

ASL 101**AMERICAN SIGN LANGUAGE I**

ASL 101 presents the fundamentals of American Sign Language (ASL) whereby students develop expressive and receptive language skills through the learning of basic vocabulary, grammatical structures, and cultural awareness. *Recommended Preparation:* ENGL 100 or ESL 141.

AT 50**AVIATION AND TRANSPORTATION INTERNSHIP**

Prerequisite or Corequisite: Enrollment in appropriate discipline-specific theory or lab course at GCC.

Recommended Preparation: ENGL 100 or ESL 141.

AT 153

INTRODUCTION TO UNMANNED AERIAL SYSTEMS

Recommended Preparation: AT 152 and ENGL 100 or ESL 141, or equivalent.

BUSAD 158

RUN YOUR OWN BUSINESS (New title)

Recommended Preparation: BUSAD 101.

CABOT 50

COMPUTER APPLICATIONS INTERNSHIP

Recommended Preparation: ENGL 100 or ESL 141, or equivalent.

CABOT 101

BUSINESS OFFICE PROCEDURES

Recommended Preparation: STV 31, STV 33, or CABOT 205, or equivalent and CABOT 102, ENGL 100, or ESL 141, or equivalent.

CABOT 103

BUSINESS VOCABULARY DEVELOPMENT

Recommended Preparation: ENGL 100 or ESL 141, or equivalent.

CABOT 104

FILING METHODS AND SYSTEMS

Recommended Preparation: CABOT 102 and ENGL 100 or ESL 141.

CABOT 205

KEYBOARDING & DOCUMENT PROCESSING I

Recommended Preparation: STV 11 and ENGL 100 or ESL 141.

CABOT 209

ADVANCED WINDOWS

Recommended Preparation: CABOT 208 or STV 80, or equivalent.

CABOT 210

KEYBOARDING & DOCUMENT PROCESSING II

Recommended Preparation: STV 12 or CABOT 205 or equivalent and ENGL 100 or ESL 141.

CHLDV 50

CHILD DEVELOPMENT INTERNSHIP

Prerequisite: or Corequisite: Enrollment in appropriate discipline-specific theory or lab course at GCC.

Recommended Preparation: ENGL 100 or ESL 141.

CHLDV 154

EARLY CHILDHOOD EDUCATION AND THE ART EXPERIENCE

Recommended Preparation: ENGL 100 or ESL 141, or equivalent.

CHLDV 135

CHILD GROWTH AND DEVELOPMENT

Recommended Preparation: ENGL 100 or ESL 151.

CHLDV 137**SCHOOL AGE CHILDREN IN CHILD CARE**

Prerequisite: CHLDV 135 or equivalent. *Recommended Preparation:* ENGL 100 or ESL 141 and MATH 15.

CHLDV 138**HEALTH, SAFETY, AND NUTRITION**

Recommended Preparation: ENGL 100 or ESL 151.

CHLDV 147**WORKING WITH INFANTS AND TODDLERS**

Prerequisite: CHLDV 135 or equivalent. *Recommended Preparation:* ENGL 100 or ESL 141 and MATH 15.

CHLDV 158**MOVEMENT DEVELOPMENT: BIRTH THROUGH TWELVE YEARS**

Recommended Preparation: ENGL 100 or ESL 141, or the equivalent and MATH 15.

CHLDV 174**ADMINISTRATION OF EARLY CHILDHOOD PROGRAMS I**

Prerequisite: CHLDV 140 or equivalent. *Recommended Preparation:* ENGL 100 or ESL 141 and MATH 15 and early childhood teaching experience.

CHLDV 175**ADMINISTRATION OF EARLY CHILDHOOD PROGRAMS II**

Prerequisite: CHLDV 174. *Recommended Preparation:* ENGL 100 or ESL 141 and MATH 15 and early childhood teaching experience.

CHLDV 176**MENTOR TEACHER PRACTICES**

Prerequisite: CHLDV 141 or equivalent. *Recommended Preparation:* ENGL 100 or ESL 141 and MATH 15. California Child Development Permit or equivalent 2 years of teaching experience.

CS/IS 49**COMPUTER SCIENCE/INFORMATION SYSTEMS INDEPENDENT STUDY**

Prerequisite: Concurrent registration in 6 or more units. *Recommended Preparation:* ENGL 100 or ESL 141.

CS/IS 50**COMPUTER SCIENCE/INFORMATION SYSTEMS INTERNSHIP**

Recommended Preparation: ENGL 100 or ESL 141.

CS/IS 101**INTRODUCTION TO COMPUTER AND INFORMATION SYSTEMS**

Recommended Preparation: ENGL 100, CABOT 105, or ESL 151.

CS/IS 186 (Summer 2020)**WORKSTATION SECURITY AND SUPPORT**

CS/IS 186 familiarizes students with workstation security measures and workstation operations. Student learn to recognize threats and to combat multiple security issues that can affect the workstation. This course prepares students to maintain workstations operations and security in a medium and large network environment. This course includes labs to provide hands-on training. Lecture 2 hours/Laboratory 3 hours.

CS/IS 255

INTRODUCTION TO ECOMMERCE/EBUSINESS

Recommended Preparation: CABOT 206 or CABOT 208.

CULIN 111

FUNDAMENTALS OF PROFESSIONAL COOKING 1

Recommended Preparation: ENGL 100 or ESL 141, or equivalent.

CULIN 113

INSTITUTIONAL SANITATION PRACTICES FOR FOODSERVICE AND HOSPITALITY

Recommended Preparation: ENGL 100 or ESL 141, or equivalent.

CULIN 116

PURCHASING FOR INDUSTRIAL FOODSERVICE AND HOSPITALITY

Recommended Preparation: ENGL 100 or ESL 141, or equivalent.

ECON 111

ECONOMIC HISTORY OF THE UNITED STATES

ECON 111 is a history of the economic development of the United States from its settlement to the present. Topics include: War of Independence, early national development, institution of slavery, regionalism, reconstruction, labor, the industrial revolution, American internationalism, and growth of service industries. **Note:** This course may not be taken for credit by students who have completed HIST 116. *Recommended Preparation:* ENGL 100 or ESL 151, or equivalent.

ECT 100

ANALYTICAL ELECTRONICS

Recommended Preparation: ENGL 100 or ESL 141.

ECT 110

ELECTRICITY AND ELECTRONICS PRINCIPLES

Recommended Preparation: ECT 100 and ENGL 100 or ESL 141.

ECT 113

CIRCUIT BOARDS & SOLDERING TECHNOLOGY

Recommended Preparation: ENGL 100 or ESL 141, or equivalent.

ECT 167

CONTRACTOR'S LICENSE LAW

Recommended Preparation: ECT 100, ECT 160, and ENGL 100 or ESL 141.

ECT 201

SOLID STATE DEVICES

Prerequisite: ECT 110 or equivalent (ECT 110 may be taken concurrently). *Recommended Preparation:* ENGL 100 or ESL 141.

EMT 139

INTRODUCTION TO EMERGENCY MEDICAL SERVICES

Recommended Preparation: BIOL 115 and ENGL 100 or ESL 151.

ENGL 117

FILM AS LITERATURE

Recommended Preparation: ENGL 100 or ESL 151, or equivalent.

ENGL 298 (New)

UNDERGRADUATE RESEARCH IN PROFESSIONAL WRITING

1.0-3.0 Units

ENGL 298 is intended to give undergraduate students hands-on experience in academic research while working collaboratively on projects within specific themes relating to professional pathways in English and Humanities. It allows the student to develop his or her critical thinking and writing skills to the level of proficiency required to complete original scholarly and professional research for possible submission and presentation, such as at a conference. Students will receive instruction in advanced research and in the process of writing and revising professional work. Students are expected to apply research analysis techniques and concepts learned in previous English classes, and to use their problem-solving skills in carrying out assigned projects. Students will be required to present the results of their research to the campus/to a group of faculty. Lecture 1-3 hours. **Prerequisite:** ENGL 101. **Recommended Preparation:** ENGL 102 or ENGL 104. Transfer Credit: CSU.

ENGL 298H (New)

HONORS UNDERGRADUATE RESEARCH IN PROFESSIONAL WRITING

1.0-3.0 Units

ENGL 298H is intended to give undergraduate students hands-on experience in academic research while working collaboratively on projects within specific themes relating to professional pathways in English and Humanities. It allows the student to develop his or her critical thinking and writing skills to the level of proficiency required to complete original scholarly and professional research for possible submission and presentation, such as at a conference. Students will receive instruction in advanced research and in the process of writing and revising professional work. Students are expected to apply research analysis techniques and concepts learned in previous English classes, and to use their problem-solving skills in carrying out assigned projects. Students will be required to present the results of their research to the campus/to a group of faculty. The honors course will be enhanced in one or more of the following ways: 1. Accelerated standards of reading levels, emphasizing primary and conceptual sources 2. Accelerated standards of critical thinking, including critical writing and problem-centered research 3. Emphasis on types or schools of literary criticism, including professional models of such. Lecture 1-3 hours.

Prerequisite: ENGL 101. **Recommended Preparation:** ENGL 102 or ENGL 104. Transfer Credit: CSU.

ENGR 100

INTRODUCTION TO ENGINEERING

Recommended Preparation: ENGL 100 or ESL 151, or equivalent.

ENGR 102

ENGINEERING PRINT READING FOR INDUSTRY

ENGR 102 covers the fundamentals of orthographic drawings for visualizing and interpreting engineering print drawings. Students developing skills in welding, machining, manufacturing and computer aided design (CAD) may benefit from this course. Drawing types, symbols, SI and U.S. Customary unit systems, terminology and industry standards such as ASME Y14.5, geometric dimensioning and tolerancing (GD and T) are covered. **Recommended Preparation:** ENGL 100 or ESL 141.

ENGR 111

COMPUTER AIDED DESIGN SOLIDWORKS I

ENGR 111 is a basic course in engineering, drafting and design, utilizing SOLIDWORKS software, with an emphasis on three-dimensional design, modeling, and engineering applications. Students learn the fundamentals of parametric modeling by creating parts, drawings and assemblies through industry based projects and activities. This course has applications in manufacturing, aerospace, automotive, and mechanical engineering design.

Prerequisite: ENGR 101 or ENGR 122, or equivalent.

ENGR 120

3D PRINTING AND MODELING

ENGR 120 provides students with the basic knowledge of 3D printing (i.e., additive manufacturing; rapid prototyping) and modeling, as well as its impact within the engineering and manufacturing community. Students have the opportunity to explore the interaction between computer aided design (CAD), computer aided manufacturing (CAM), and additive manufacturing systems by participating in the design and prototyping of an actual part using the latest 3D printers. **Recommended Preparation:** ENGR 111 or ENGR 122, MATH 90 or MATH 90+, and ENGL 100 or ESL 141.

ENGR 130

INTRODUCTION TO ROBOTICS

ENGR 130 provides an introductory study of the fundamentals of mobile robotics, robotic arms, and the associated engineering concepts. It prepares students for more advanced studies in robotics and related technologies. Students gain experience with fundamental concepts in robot design, sensors and actuators, programming, electronics, and computer aided design and 3D printing. The vast majority of the course experience consists of implementation of and experimentation with these skills through hands-on labs. **Recommended Preparation:** ENGL 100 or ESL 141 and MATH 90 or MATH 90+.

ENGR 132

INTRODUCTION TO DIGITAL ELECTRONICS

4.0 Units

ENGR 132 provides an introduction to the basic concepts and theory of digital electronics. Binary number system is covered along with Boolean functions and their simplification. Combinational and sequential logic and digital system design using simulation software is included. Students also learn how to build, test, and analyze simple digital circuits in the laboratory, using test equipment such as power supply, multimeter, signal/function generator, and oscilloscope. Lecture 3 hours/Laboratory 3 hours.

ENGR 298

UNDERGRADUATE RESEARCH IN ENGINEERING I

ENGR 298 is a research and design course where diverse groups of students collaborate professionally to research and design an engineering product or process solving a real-world engineering problem tied to contemporary societal needs. Emphasis is placed on projects that help people by engaging multidisciplinary topics such as robotics, biomedical, and environmental engineering and sustainability. Typically, students learn technical and collaborative communication skills and publish academic papers or posters at local conferences. Lecture 1.5 hours/Laboratory 1.5 hours. **Prerequisite:** ENGR 122, ENGR 125, ENGR 133, ENGR 140, ENGR 152, ENGR 156, or ENGR 111, or equivalent.

ENTRE 101

CREATE YOUR OWN BUSINESS (New Title)

Recommended Preparation: ENGL 100 or ENGL 191, or ESL 141, or equivalent.

ENTRE 102

GROW YOUR OWN BUSINESS (New Title)

Recommended Preparation: ENGL 100 or ENGL 191, or ESL 141, or equivalent.

FIRE 106**PRINCIPLES OF FIRE AND EMERGENCY SERVICES SAFETY AND SURVIVAL**

FIRE 106 introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. Topics include risk evaluation, control procedures and is based on national and state fire education curriculum. **Recommended Preparation:** ENGL 100 or ENGL 191, or ESL 141, or equivalent.

FIRE 108**FIRE APPARATUS AND EQUIPMENT**

FIRE 108 covers the general technical knowledge of driving laws, driving techniques, construction, and operation of pumping engines, ladder trucks, aerial platforms, and specialized equipment. This course also includes information on firefighter licensing programs in California and apparatus maintenance procedures. **Recommended Preparation:** ENGL 100 or ENGL 191, or ESL 141, or equivalent.

FIRE 114**HAZARDOUS MATERIALS**

FIRE 114 is an introduction to hazardous materials and the levels of incident management. This course covers problems of flammability as encountered by firefighters when dealing with toxic substances, as well as concerns tied to fuels, explosives, oxidizers and radioactive materials. It also covers firefighting practices and procedures pertaining to hazardous materials response. **Recommended Preparation:** ENGL 100 or ENGL 191, or ESL 141, or equivalent.

FIRE 116**FIRE ACADEMY I**

Recommended Preparation: ENGL 100 or ESL 141, or equivalent.

FIRE 118**FIRE ACADEMY III**

7.0 Units

Lecture 5 hours/Laboratory 6 hours

FIRE 144**PHYSICAL STANDARDS FOR THE FIREFIGHTER**

Recommended Preparation: FIRE 101, ENGL 100 or ESL 141, and KIN 167 or KIN 168.

GEOL 102**ENVIRONMENTAL GEOLOGY**

GEOL 102 is a study of the earth and its natural hazards like earthquakes, volcanism, climate change, pollution, and human interactions with the earth environment. **Recommended Preparation:** ENGL 100 or ESL 141, or equivalent.

HIST 111**WOMEN IN AMERICAN HISTORY (title change)**

HIST 111 is a survey of the history of women in America from the colonial period to the present with emphasis on relevant political, economic and social factors. Traditional roles of women as affected by race, ethnicity, and class are analyzed in terms of literary images, popular culture, and stereotypes. The efforts of women to change their traditional roles are examined along with the attitudes and prejudices they encountered from both sexes in their efforts to bring about change. In addition, women's contributions to various wars, reform movements, religious crusades, and the women's rights movements are examined in the context of American history to establish the real contributions women have made to this country. **Prerequisite:** ENGL 100 or ENGL 120, or ESL 151, or equivalent.

HIST 111H

HONORS WOMEN IN AMERICAN HISTORY (title change)

HIST 111H is a survey of the history of women in America from the colonial period to the present with emphasis on relevant political, economic and social factors. Traditional roles of women as affected by race, ethnicity, and class are analyzed in terms of literary images, popular culture, and stereotypes. The efforts of women to change their traditional roles are examined along with the attitudes and prejudices they encountered from both sexes in their efforts to bring about change. In addition, women's contributions to various wars, reform movements, religious crusades, and the women's rights movements are examined in the context of American history to establish the real contributions women have made to this country. The honors course is enhanced in one or more of the following ways: 1. Students have an increased responsibility for leading class discussions and facilitating group activities inside and outside the classroom. 2. Writing assignments are focused on critical thinking, the interpretation of primary sources, and the application of historical concepts. **Prerequisite:** ENGL 100 or ENGL 120, or ESL 151, or equivalent.

HIST 116

ECONOMIC HISTORY OF THE UNITED STATES

HIST 116 is a history of the economic development of the United States from its settlement to the present. Topics include: War of Independence, early national development, institution of slavery, regionalism, reconstruction, labor, the industrial revolution, American internationalism, and growth of service industries. Note: This course may not be taken for credit by students who have completed ECON 111. **Recommended Preparation:** ENGL 100 or ESL 151, or equivalent.

HRM 256

MANAGEMENT OF INSTITUTIONAL FOODSERVICE AND HOSPITALITY PERSONNEL AND OPERATIONS

Recommended Preparation: ENGL 100 or ESL 141, or equivalent.

ITAL 130

ITALIAN CULTURE AND CIVILIZATION THROUGH CINEMA

Recommended Preparation: ENGL 100 or ESL 151.

JOURN 103

STUDENT PUBLICATIONS STAFF

JOURN 103 is a course in writing news, feature, and editorial copy, copy reading and editing, headline writing, newspaper layout and make-up, and the mechanics of newspaper production. Students study laws and ethics of the press and there is an overall emphasis on the function and responsibility of the newspaper. Multiple formats are considered, including digital and broadcast journalism. This course produces the campus newspaper, El Vaquero, which publishes in both print and online format. **Recommended Preparation:** JOURN 102 or equivalent; ENGL 100 or ESL 151, or equivalent.

JOURN 104

STUDENT PUBLICATIONS EDITOR

JOURN 104 is an intermediate course in writing news, feature, and opinion articles; copy reading and editing; headline writing; newspaper layout and make-up; and the mechanics of newspaper production. There is an increased emphasis on in-depth reporting for print as well as digital and broadcast media. There is further study of law and ethics of the press with an overall emphasis on the function and responsibility of the newspaper, internet and social media. There is also a greater emphasis on interpretative reporting. This course produces the campus newspaper and potentially a magazine, El Vaquero and GCC Insider, respectively, as well as the newspaper site for the paper, which includes a broadcast component. Social Media Platforms such as Twitter, Snapchat, Instagram and Facebook are also implemented. Students in this class assume responsibility for editing and managing El Vaquero, the print and online editions.

JOURN 107**MAGAZINE WRITING**

JOURN 107 focuses on feature writing for magazines and newspapers, as well as digital publications. Students learn how to find feature ideas and develop them into articles for student or professional publications. The creative, story-telling side of journalism is stressed. The freelance market for feature writers is discussed.

Recommended Preparation: ENGL 100 or ESL 151, or equivalent.

JOURN 110**PHOTOJOURNALISM**

JOURN 110 provides instruction in techniques for producing photos for news and feature articles. Students learn effective ways to take photos to accompany articles and broadcast pieces, as well as to use photos to tell a story of their own. Both conventional and digital photography are used. **Recommended Preparation:** ENGL 100 or ESL151 and PHOTO 101.

JOURN 210**ADVANCED NEWS WRITING**

3.5 Units

JOURN 210 emphasizes public affairs reporting. Students will cover public meetings both on and off campus, potentially including trials, school board meetings, and city council meetings. They will also contribute an investigative piece to the college newspaper, El Vaquero. The emphasis is on print journalism, but students will also be exposed to broadcasting, the Internet and digital reporting, and podcasting/radio reporting. Emphasis will be placed on journalistic law and ethics. Lecture 3 hours/Laboratory 1.5 hours.

JOURN 250**VISUAL COMMUNICATION**

3.5 Units

JOURN 250 surveys the most significant techniques and examples of visual communication employed in mass media, including newspapers, magazines, television, the Internet, and advertising. The course is designed to lead students to an understanding of the possibilities of visual communication in mass media. The course exposes students to both practitioners and scholars in the field to enhanced learning about how the media uses images and how students might incorporate visual images into their own work across media disciplines. Students develop their critical thinking skills by learning the language and theory of visual media. Lecture 3 hours/Laboratory 1.5 hours.

Recommended Preparation: ENGL 100 or ESL 151, or equivalent.

KIN 151**APPLIED EXERCISE SCIENCE**

KIN 151 introduces the student to the fundamental scientific concepts applicable to exercise and physical fitness. Areas of study include: functional anatomy, kinesiology, biomechanics and exercise physiology. The acute and chronic effects of exercise will be addressed with practical applications to fitness programming and instruction. Course is designed to prepare student for the scientific content requirements that are common to the certified personal trainer (CPT) and group fitness instructor (GFI) exams offered by several national certification agencies, including the National Academy of Sports Medicine. **Note:** This course is designed as a part of the Fitness Specialist Certificate curriculum. Note: Students who successfully completed HLTH 117 prior to Spring 2016 will not receive credit for completion of KIN 151. **Recommended Preparation:** BIOL 115 or equivalent and ENGL 100 or ESL 151, or equivalent.

KIN 157**PREVENTION AND CARE OF ATHLETIC INJURIES**

KIN 157 provides an in-depth examination of selected topics in sports medicine and a thorough knowledge of the prevention and care of injuries commonly occurring during physical activity and sports competition. The course covers the responsibilities of the athletic trainer, emergency procedures, sports-injury mechanisms, characteristics and evaluation of sport injuries as well as their acute care - including taping and wrapping techniques.

Recommended for students interested in kinesiology, physical therapy, coaching, athletic training and sports medicine, as well as competitive and recreational athletes. **Note:** Students who successfully completed HLTH 110 prior to spring 2016 will not receive credit for completion of KIN 157.

MACH 114***INTERMEDIATE VERTICAL MILL PROCESSES**

Recommended Preparation: MACH 101 or equivalent.

MATH 100**COLLEGE ALGEBRA**

Prerequisite: Placement is based on academic background or satisfactory completion of MATH 90, 90+, or 90EF.

MATH 102**TRIGONOMETRY**

MATH 102 is a course in plane trigonometry. The course emphasizes the analytic aspects of the subject. Topics include properties of geometric figures, trigonometric functions of any angle, trigonometric identities, half-angles, trigonometric equations, applications of trigonometric functions, functions, complex numbers, and polar and parametric equations. *Recommended Preparation:* MATH 90, 90+, or 90EF.

MATH 102S (New)***LAB SUPPORT FOR TRIGONOMETRY**

0.5 Units

MATH 102S is a lab course to complement MATH 102 in the development and practice of essential study techniques and course material for success in Trigonometry. Topics include plane geometry, solving algebraic equations, simplifying algebraic expressions, coordinate plane, graphing techniques and basics of Trigonometry. Laboratory 1.5 hours. *Recommended Preparation:* MATH 15. Corequisite: MATH 102.

MATH 110B**PRECALCULUS II**

MATH 110B is the second of two courses that prepares students for calculus. Topics include the study of trigonometric functions, their inverses and their graphs, identities and their proofs, trigonometric equations, and graphs of polar equations. Additional topics include complex numbers, graphs of parametric equations and conic sections, linear and nonlinear systems of equations, the binomial theorem, partial fraction decomposition, and introduction to vectors. **Note:** No credit will be given for MATH 110B if a student has successfully completed MATH 110 or MATH 100 and MATH 102.

MATH 135

MATHEMATICAL IDEAS IN THE MODERN WORLD (New Title)

MATH 135 is a one-semester course designed for SLAM majors that do not require MATH 136 or MATH 138. Topics in this course include units and unit conversion, proportional reasoning, probability, descriptive statistics, basic probability, financial mathematics, apportionment, and voting theory. Emphasis is placed on the application of these concepts to real world data, development of quantitative reasoning, and the interpretation of results. A spreadsheet software will be used as an exploration tool. Lecture 2 hours/Laboratory 3 hours. **Prerequisite:** MATH 30 or MATH 30+ or MATH 30E or MATH 90 or MATH 90+ or MATH 90EF.

MATH 136

STATISTICS

Prerequisite: Placement is based on academic background or satisfactory completion of MATH 30, 90.

Recommended Preparation: ENGL 101.

MATH 136+

STATISTICS WITH SUPPORT

5.0 Units

Lecture 4 hours/Laboratory 3 hours. **Prerequisite:** Placement is based on academic background or satisfactory completion of MATH 30, 90. **Recommended Preparation:** ENGL 101.

MATH 136H

HONORS STATISTICS

Prerequisite: Placement is based on academic background or satisfactory completion of MATH 30, 90.

Recommended Preparation: ENGL 101.

MATH 190

OVERCOMING MATH ANXIETY

MATH 190 is designed to provide students of varying mathematical backgrounds with the knowledge, skills and attitudes to be successful in their mathematics related goals. Topics include myths, stereotypes, growth mindset, learning styles, proper placement in classes, problem-solving skills, study skills, note-taking skills, test-taking strategies and stress reduction techniques all specifically tailored for Mathematics. Mathematical recreations, tricks and history may be incorporated into the course. **Note:** This course is Pass/No Pass only.

MCOMM 101

INTRODUCTION TO MASS COMMUNICATIONS

Recommended Preparation: ENGL 100 or ESL 151.

MEDIA 120

WRITING FOR MEDIA

Recommended Preparation: ENGL 100 or ESL 151, or equivalent.

MOA 180

HEALTH INFORMATION MANAGEMENT & HIPAA STANDARDS (New Title)

MOA 180 provides students with an introduction to the fundamental theories and practices of health information management. The course includes an overview of health Care Industry, services organization and delivery; health data, record structure and electronic documentation; health content and quality standards confidentiality and compliance; and management, leadership, performance improvement. The course also includes HIPAA regulations, privacy issues and security standards. **Prerequisite:** None. Transfer credit: CSU.

MOA 181

BASIC MEDICAL TERMINOLOGY

MOA 181 is an introductory course designed for the student interested in an office position in the health sciences as a health technician, medical receptionist, or medical secretary. Basic foundational medical terms and components of vocabulary building is emphasized. Note: This course may not be taken for credit by students who have completed MOA 182. *Prerequisite:* None.

MOA 182

MEDICAL TERMINOLOGY FOR BODY SYSTEMS (New Title)

MOA 182 is designed to familiarize those interested in the medical field with origin, correct spelling, pronunciation, meaning and current usage of common medical terms and their application to clinical records and reports. Emphasis is placed on the roots, prefixes, suffixes, and word combinations. A comprehensive overview of each body system's common medical terms is emphasized. In addition, anatomy, physiology, and disease processes as well as therapeutic measure for each are discussed. Additionally, SOAP charts - a documentation tool (Subjective, Objective, Assessment and Plan) - is introduced as a tool show case use of medical terminology in patient care service. *Recommended Preparation:* ENGL 100 or ENGL 191, or ESL 141, or BUSAD 106, or equivalent and MOA 180.

MOA 183

INTRODUCTION TO HEALTH INSURANCE & REIMBURSEMENT (New Title)

MOA 183 is designed to familiarize students with the tools necessary to understand the process of medical billing, coding, insurance and reimbursement in a medical setting. The course will explore various health insurance companies, policies and regulations and also the relationship between single payer, medicare and medical insurance providers as well as other private health insurance providers. Students will also be exposed to various coding standards as well as medical claims submission process to support the physician with appropriate reimbursement for their services. *Prerequisite:* None.

MOA 185

MEDICAL OFFICE ADMINISTRATION (New Title)

Prerequisite: None.

MUSIC 121

HISTORY OF ROCK MUSIC

MUSIC 121 is a course in the evolution of popular music in the United States. Students first study the musical influences which led to the rise of rock and roll in the mid-1950. They then follow the development of the various musical styles which are collectively referred to as rock music. Emerging musical innovations are viewed as reflections of changes within our society. Note: The student is required to attend at least one popular music concert and submit a written report.

MUSIC 122

HISTORY OF JAZZ

MUSIC 122 traces the evolution of jazz music from its earliest influences in the nineteenth century to current styles. Special emphasis is placed on understanding how to listen for greater enjoyment. Students learn basic elements of music, such as meter, form, and structure, and how the elements of music are used in jazz. Students learn to distinguish the instruments used in jazz performance as well as examining the different types of jazz ensembles. Students learn about the leading practitioners of jazz and listen to the masterworks of jazz. **Note:** The student is required to attend at least one jazz concert and submit a written report.

MUSIC 140

APPLIED MUSIC

Prerequisite: The student must demonstrate a basic proficiency on an instrument or voice. This will be determined by individual audition. Corequisite: concurrent enrollment in MUSIC 143, 144, 145, 146, 147, 148, 152, 230, 231, 232, 233, 235, 236, 237, 240, 241, or 242 is required.

NS 223

MATERNAL CHILD HEALTH

NS 223 focuses on the needs of the growing family and incorporates both maternity and pediatric nursing content. The nursing process is used to provide patient-centered care as the student learns to adapt previously learned skills and knowledge to the unmet needs of maternity and pediatric patients. Observation and direct care of normal and high-risk populations are included. Theory and clinical experiences are structured to provide the second year nursing student with the opportunity to develop essential linkages for decision making and prioritization unique to this specialty.

NUTR 118

DIETARY HEALTH CARE

Prerequisite: CULIN 111 or CULIN 112, or equivalent and NUTR 114 or equivalent. **Recommended Preparation:** ENGL 100 or ESL 151.

NUTR 125

ELEMENTS OF NUTRITION

Recommended Preparation: ENGL 100 or ESL 151.

NUTR 201

CERTIFIED DIETARY MANAGER (CDM) BOARD EXAM REVIEW

Recommended Preparation: Dietetic Services Supervisor (DSS) Certificate and ENGL 100 or ESL 141.

PHOTO 105

PROJECTS IN TRADITIONAL PHOTOGRAPHY

Note: Medium and large format cameras are available for checkout from Photography Department.

PHOTO 136 (New)

DRONE PHOTOGRAPHY AND VIDEOGRAPHY

2.0 Units

PHOTO 136 provides students with hands-on experience creating still and moving images using drones. Emphasis is placed planning and executing flight plans to support camera-based capture systems on unmanned aerial vehicles (UAV). **Note:** Students seeking employment in drone operation should enroll in AT-152, Intro to Unmanned Aircraft Vehicles, to prepare for the Federal Aviation Authority (FAA) Remote Pilot License. Lecture 1 hour/Laboratory 1 hour. **Recommended Corequisite:** AT 152. Transfer Credit: CSU.

PHOTO 142

COMMERCIAL PHOTOGRAPHY

Change in hours from 2 lecture hours/6 laboratory hour to 3 lecture hours/3 laboratory hours.

POL S 101 (Summer 2021 change)

INTRODUCTION TO UNITED STATES AND CALIFORNIA GOVERNMENT AND POLITICS (New Title)

Prerequisite: ENGL 100 or ESL 141, or equivalent.

SOC 200**RESEARCH METHODS FOR SOCIOLOGY** (correction in title)**SPAN 124H****HONORS ENGLISH TRANSLATIONS OF MASTERPIECES OF HISPANIC LITERATURE**

SPAN 124H is the study of a selected representation of major works of literature of Spain and Spanish America in English translation. Students study the various literary movements and genres to which the works pertain in order to critically analyze the literature. No knowledge of Spanish is necessary. The honors class is enhanced in one or more of the following ways: 1. Students write a research paper utilizing critical thinking skills and literary analysis on an approved thesis using the MLA guidelines. 2. There is an increased emphasis on critical thinking skills by increasing the value of essay answers on examinations. 3. Students attend a theatrical presentation of one of the dramas studied and/or attend literary conferences hosted by nearby 4-year institutions. **Recommended Preparation:** ENGL 100 or ENGL 120, or ESL 151, or equivalent.

SPCH 100**INTERPERSONAL COMMUNICATION**

Recommended Preparation: ENGL 100 or ENGL 120, or ESL 151, or equivalent.

SPCH 101**PUBLIC SPEAKING**

Recommended Preparation: ENGL 100 or ESL 151, or equivalent.

SPCH 103**GROUP DISCUSSION**

Recommended Preparation: ENGL 100 or ENGL 120, or ESL 151, or equivalent.

SPCH 105**VOICE DICTION**

SPCH 105 concentrates on improving each student's speaking voice through oral communication exercises and activities. Techniques in relaxation, breath control, articulation, vocal variety and pronunciation are emphasized. Students develop accuracy of sound production for standard American speech while learning the International Phonetic Alphabet. **Recommended Preparation:** ENGL 100 or ESL 151, or equivalent.

SPCH 106**ORAL INTERPRETATION OF LITERATURE**

SPCH 106 teaches the skills, techniques and theories of oral interpretation of literary works. Students learn to use verbal and nonverbal elements to communicate subtextual choices related to structural analysis of a variety of literary genres including prose, poetry and drama. Class exercises and instructor feedback are used to teach these concepts and to focus on the student's individual strengths and weaknesses. Methods of literary selection and excerpting, along with analysis in relation to performance requirements are demonstrated. **Recommended Preparation:** ENGL 100 or ESL 151, or equivalent.

SPCH 160**FORENSIC COMPETITION**

Recommended Preparation: ENGL 100 or ESL 151, or equivalent.

ST DV 141**IMPROVING COLLEGE PERFORMANCE AND STUDY SKILLS**

ST DV 141 is designed to help students develop effective academic study skills and critical thinking strategies necessary to reach desired educational goals. The completion of this course prepares students to learn academic survival strategies, such as principles of memory and learning, motivation and concentration, effective note-taking, textbook study methods, efficient time management, and test-taking/test anxiety reduction.

ST DV 145

ACHIEVING ACADEMIC AND CAREER SUCCESS

ST DV 145 is a survey course designed to increase academic motivation and career success throughout the life span. The primary goal of this course is to examine how an individual's psychological, social, physical, and environmental factors impact academic achievement and academic, career and personal life choices. Topics include learning theory, achievement motivation, identity development, critical thinking strategies, study and time management techniques, career exploration, decision making, and vocational planning. **Note:** ST DV 145 may not be taken for credit by students who have successfully completed ST DV 125 or ST DV 128. Fee for three assessments.

WELD 117

INTRODUCTION TO WELDING

Recommended Preparation: ENGL 100 or ESL 141.

NONCREDIT COURSES

ESL 84 (NEW)

ENGLISH AS A SECOND LANGUAGE NORTH AMERICAN PRONUNCIATION FOR INTERMEDIATE STUDENTS

ESL 84 is designed for ESL students at the high beginning/low intermediate level of English acquisition. This course concentrates on approximating North American pronunciation in the speech of non-native students using a variety of techniques. Practice in the pronunciation of individual sounds, rhythm, lexical and prosodic stress, intonation and phraseology helps students communicate more effectively and helps prepare them for everyday communication activities. In ESL 84, students learn to use formal diction by making oral presentations and participating in class discussions at the high beginning/low intermediate level. They practice expressive speaking, appropriate facial expressions, and hand and body gestures. Lecture 80 hours. **Recommended Preparation:** ESL 20.

ESL 86 (NEW)

ENGLISH AS A SECOND LANGUAGE NORTH AMERICAN PRONUNCIATION FOR ADVANCED STUDENTS

ESL 86 is designed for ESL students at the advanced level of English acquisition. This course concentrates on approximating North American pronunciation in the speech of non-native students using a variety of techniques. Practice in the pronunciation of individual sounds, rhythm, lexical and prosodic stress, intonation and phraseology helps students communicate more effectively and helps prepare them for everyday communication activities. In ESL 86 students learn to use formal diction by making oral presentations and participating in class discussions at an Advanced ESL level. They practice expressive speaking, appropriate facial expressions, and hand and body gestures. Lecture 80 hours. **Recommended Preparation:** ESL 30.

STV 66 (NEW)

CERTIFIED NURSING AIDE

STV 66 provides workforce preparation for basic nursing care in the direct care of patients in a variety of settings. Focus is on direct care of the client, promotion of comfort measures, and collection, recording and reporting of data to licensed personnel. Principles of critical thinking, team building, ethics, caring and cultural sensitivity are integrated throughout the course. Students who complete this course are qualified to take the California Certification Exam. Lecture 175-225 hours.

STV 120

COMPUTER LAB FOR NONCREDIT

STV 120 is a computer laboratory course available for all registered noncredit students. This course provides students with computer devices and proprietary or commercial software to practice skills learned in their noncredit courses. Students learn to utilize available computer technologies for academic work, research and personal enrichment. Laboratory 20-320 hours. **Recommended Preparation:** ESL 20 or equivalent.

CREDIT PROGRAMS

ADDICTION STUDIES COUNSELING AS DEGREE AND CERTIFICATE

Core Curriculum (12 units): AD ST 101, 103, 105, 114.

Behavioral Course Required: PSYCH 101.

Required Skill Courses: AD ST 110, 112, 119

Required Internship Courses (8 units): AD ST 50 (must be taken twice), 152, 153.

Select 3 units: AD ST 111.

Field Experience (4 units): AD ST 154.

ARCHITECTURAL DRAFTING AND DESIGN AS DEGREE AND CERTIFICATE

Required Courses: ARCH 101, 103, 105, 106, 120, 125, 130, 135, 102 or 141 or 250; ART 130 or 150; BUSAD 152 or SPCH 101; ENGR 109.

Select one of the following (3-4 units): T ED 140, ENGL 100, 101, 102, 104.

Select one of the following (3-6 units): T ED 142; MATH 90, 100.

COMPUTER SCIENCE AS DEGREE AND CERTIFICATE

Required courses (17 units): CS/IS 165, 166, 211, 212, 280.

Additional courses (20 units): CS/IS 101, 112, 125, 130, 135, 137, 139, 172, 174, 190; MATH 103E, 104E, 107; PHY 101. (PHILO 123 was removed from the additional courses)

ENGINEERING

CIVIL ENGINEERING CERTIFICATE

Required Courses: MATH 103E, 104E, 105, 108; PHY 101, 102, 103; CHEM 101; BIOL 102 or GEOL 101 and 111 or GEOL 102 and 112; ENGR 100, 101, 109, 140, 152, 156, 230, 240, 241.

ELECTRICAL ENGINEERING CERTIFICATE

Required Courses: MATH 103E, 104E, 105, 108; PHY 101, 102, 103; CHEM 101; ENGR 100, 131, 132, 140, 152, 156, 240; CS/IS 135.

MECHANICAL ENGINEERING AS DEGREE

Required courses: MATH 103E, 104E; PHY 101, 102; CHEM 101.

Select a minimum of twelve units from the following courses: ENGR 100, 122, 133, 140, 141, 152, 156, 230, 240, 241.

MECHANICAL ENGINEERING CERTIFICATE

Required Courses: MATH 103E, 104E, 105, 108; PHY 101, 102, 103; CHEM 101; ENGR 100, 101, 111, 140, 152, 156, 230, 241.

FITNESS SPECIALIST AS DEGREE (New)

Fitness Specialist Associate of Science degree is designed to prepare students with the knowledge, skills and abilities required to become Personal Trainers and/or Group Fitness Instructors. Practical experience is integrated into curriculum for the development of skill mastery. Students are recommended to have basic knowledge of human biology, basic English writing and speaking skills, and the ability to perform moderate physical activity before beginning this program. Students must complete all required core courses for a total of 18-24 units. **Program Learning Outcomes:** demonstrate knowledge, skills and abilities required for the NASM-CPT and AFAA-GFI exams; apply fundamental science of kinesiology to assess, design, implement and lead fitness programs for individuals and groups in a diverse population; utilize universal risk management strategies.

Required Courses: KIN 151, 155, 156, 167, 168; HLTH 102.

Select one course from the following (2-4 units): KIN 157, 158; HLTH 128; ENTRE 101, 102.

Select two courses from the following (KIN 50 may be taken twice) (2-3 units): PE 108, 110, 111, 180, 181, 220, 221; DANCE 101, 190, 194; KIN 50.

FRENCH LANGUAGE AA DEGREE AND CERTIFICATE

Required Courses (minimum 15 units): FREN 101, 102, 103, 104.

If 20 units have not been reached in the required courses, select one of the following (3 units): ARTH 107; ENGL 110; HIST 101; LING 101; MUSIC 125.

HISTORY AA-T

Required Core: HIST 117, 118.

List A: (6 units) HIST 101 or 140, 102 or 141.

LIST B: Select one course from each area:

Area 1: (3 units) Any world history course from list A not already used; ANTHR 102, 114; ARTH 112; HIST 103, 104, 105, 111, 113, 115, 121, 131, 132; ETH S 102, 110, 120, 121, 123, 124, 125, 132, 164; GEOG 102; ENGL 111; SOC S 130.

Area 2: (3 units) Any history course not already used or any non-history course from the humanities or social sciences related to history; ARTH 113; ENGL 109, 110, 111; GEOG 103; HIST 106, 122, 133, 136, 152; HUMAN 115; PHILO 115, 118, 121; POL S 101, 111; SOC S 101; SPCH 108.

ITALIAN LANGUAGE AA DEGREE AND CERTIFICATE

Required Courses (minimum 15 units): ITAL 101, 102, 103, 104.

If 20 units have not been reached in the required core, select one from the following (3 units): ITAL 103; ARTH 102, 104, 105, 106; LING 101; HIST 101; MUSIC 120.

PSYCHOLOGY AA-T

Required Core: MATH 136; PSYCH 101 OR 101H; PSYCH 200;

List A: Select one course BIOL 115, 122; PSYCH 103;

List B: (3 units) Any course not used from List A not already used; PSYCH 104;

List C: (3 units) Any course from List A or List B not already used; ANTH 102, ANTHR 102H, BIOL 120; CHEM 101, 102; ENGL 102, 102H, 104; PSYCH 105, 106, 110, 111, 113, 115, 131, 203; SOC 101.

Required Units for Major: 19.5-23.5 units*

SPANISH AA-T

Required Core: SPAN 101, 102, 103 or 115, 104;

List A: Select one course (3 units) SPAN 124H, 131; ETH S 102, 120; HIST 103, 104, 105, 113.

SPORTS COACHING AS DEGREE AND CERTIFICATE (New)

The Sport Coaching AS degree or certificate provides students a foundation in evidence-based coaching theories and effective practices to prepare students to become sports coaches for community or competitive sports. Communication techniques, sports-skills development and ethical standards are emphasized, along with considerations for coaching a diverse population of athletes across all ages, racial backgrounds, competition levels and abilities. Students should be able to perform moderate physical activity and communicate verbally in English before starting this program, and are encouraged to practice their focus sport(s) through PE sports classes or intercollegiate sports competition prior to and/or during the program. **Program Learning Outcomes:** Evaluate, compare and examine skill development, different types of tactics and strategies, coaching philosophies, leadership styles, and practice organization to enhance the growth of student-athletes; Develop and examine the value of effective communication with administration, parents, officials and student athletes to facilitate positive social growth; Recognize ethical and social responsibilities in the area of coaching and how to work through ethical dilemmas in sport.

Required Courses: HLTH 101; KIN 157, 167, 168, 170; PSYCH 170.

Select one of the following (2-4 units): KIN 151, 158, 171.

Select one of the following (3 units): HLTH 128; NUTR 125.

Select one of the following (3-4 units): ETH S 110, 121; ENGL 101.

Select one of the following (1 unit): PE 140, 150, 202, 210, 217, 220, 238, 256, 261, 274.

NONCREDIT PROGRAMS

HOME CAREGIVER (New)

This program is designed to train students for employment as personal care assistants in the home, addressing the trend of the fastest growing segments of the elder care market. The certificate provides the participant with investigation of professions and pathways in health care careers. Some of the basic concepts include understanding roles in health careers, having compassion for individuals in other cultures, and customer/patient service. Furthermore, this program will also provide foundational health skills for students to enter into more advanced health career programs.

Required Courses: STV 60 and 64.

MEDICAL ASSISTANT (New)

The Medical Assistant Certificate Program is designed to train students for employment as an administrative medical assistant and clinical medical assistant, addressing the trend of physician offices combining the tasks of front and back office as a single position. The certificate provides the participant with a comprehensive understanding of all medical office duties. Front office training emphasizes mastering medical terminology, handling problem situations involving patients over the phone or in person, learning basic billing and transcription techniques and medical software. Additionally, the clinical back office procedures emphasize checking blood pressure, injections, and drawing blood, and gaining the skills needed to hold a variety of roles in a medical practice setting.

Required Courses: STV 61 and 63.