

world, students will learn structures that will enable them to function in Arabic in everyday contexts.

AA/AS GE, CSU, CSU GE, IGETC, UC

121 ARABIC II 5 UNITS

Prerequisite: "C" grade or higher or "Pass" in ARBC 120 or two years of high school Arabic or equivalent

5 hours lecture

Continuation of Arabic I. Continues to develop oral and written skills based on practical everyday needs. Students with three years of high school Arabic should enroll in ARBC 220.

AA/AS GE, CSU, CSU GE, IGETC, UC

122 ARABIC FOR THE ARABIC SPEAKER I 5 UNITS

5 hours lecture

Fundamentals of spoken and written Arabic for the bilingual speaker. This course is designed to help Arabic-speaking students further improve their oral and written communication skills. Emphasis on writing, reading comprehension, and vocabulary building at the intermediate level in a cultural context. Exposure to the diversity within the cultures of the Arabic-speaking world. This course is designed to provide the bilingual speaker with the linguistic and learning skills required for successfully completing upper division courses in Arabic. The course will be taught in Arabic.

AA/AS GE, CSU, CSU GE, IGETC, UC

123 ARABIC FOR THE ARABIC SPEAKER II 5 UNITS

Prerequisite: "C" grade or higher or "Pass" in ARBC 122 or equivalent

5 hours lecture

This course is designed to help Arabic-speaking students further improve their oral and written communication skills. In addition, it provides the bilingual speaker with the linguistic and learning skills required for successfully completing upper division courses in Arabic.

AA/AS GE, CSU, CSU GE, IGETC, UC

145 ARABIC CIVILIZATIONS 3 UNITS

3 hours lecture

Introduction to the major characteristics of Arabic civilization as reflected in literature, philosophy, architecture, and the arts of Arabic countries. This course may have an emphasis on a selected Arabic country or countries. This course will be taught in Arabic.

AA/AS GE, CSU, CSU GE, IGETC, UC

220 ARABIC III 5 UNITS

Prerequisite: "C" grade or higher or "Pass" in ARBC 121 or three years of high school Arabic or equivalent

5 hours lecture

Continuation of Arabic II. Continues to develop oral, listening, reading and writing skills in order to acquire proficiency in Arabic. Students with four years of high school Arabic should enroll in ARBC 221.

AA/AS GE, CSU, CSU GE, IGETC, UC

221 ARABIC IV 5 UNITS

Prerequisite: "C" grade or higher or "Pass" in ARBC 220 or four years of high school Arabic or equivalent

5 hours lecture

Continuation of Arabic III. Continues to develop oral, reading, writing and listening skills in order to improve proficiency in Arabic.

AA/AS GE, CSU, CSU GE, IGETC, UC

250 CONVERSATIONAL ARABIC I 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in ARBC 121 or 122 or 123 or 220 or 221 or three years of high school Arabic or equivalent

3 hours lecture

Continues to develop oral, reading, writing and listening skills, but with an emphasis in oral proficiency.

AA/AS GE, CSU, CSU GE, IGETC, UC

251 CONVERSATIONAL ARABIC II 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in ARBC 250 or four years of high school Arabic or equivalent

3 hours lecture

Continues to develop oral, reading, writing and listening skills, but with an emphasis in oral proficiency.

AA/AS GE, CSU, CSU GE, IGETC, UC

254 CONVERSATIONAL IRAQI DIALECT 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in Arabic 121 or 122 or 123 or 220 or 221 or three years of high school Arabic or equivalent

3 hours lecture

Focuses on intermediate level conversation development with vocabulary building and improvement of speaking proficiency using Iraqi dialect in the context of Arabic Iraqi culture. Conversations in the Iraqi dialect are based on culturally relevant vocabulary and idiomatic expressions that deal with everyday situations. The course will focus on speaking and phonetics of Iraqi Arabic. It will continue to develop oral, listening, reading, and writing skills with emphasis in oral proficiency.

AA/AS GE, CSU, CSU GE, UC

ARAMAIC (ARAM)

120 ARAMAIC I 5 UNITS

5 hours lecture

Introductory course to the classical-modern Aramaic language, essentials of grammar and pronunciation, and the Chaldean-Assyrian culture and civilization. Facilitates the practical application of the language in everyday oral and written communication at the beginning level. Students will learn structures that will enable them to function in Aramaic in everyday contexts while becoming familiar with the Aramaic speaking world. The origin of the Semitic languages will be surveyed through selected readings and discussions. *Content equivalent to two years of high school language study.*

AA/AS GE, CSU, CSU GE, IGETC, UC

121 ARAMAIC II 5 UNITS

Prerequisite: "C" grade or higher or "Pass" in ARAM 120 or equivalent

5 hours lecture

Continuation of Aramaic I. Covers the classical-modern Aramaic alphabet, essentials of grammar and pronunciation, and the language of Chaldean-Assyrian culture and civilization.

AA/AS GE, CSU, CSU GE, IGETC, UC

220 ARAMAIC III 5 UNITS

Prerequisite: "C" grade or higher or "Pass" in ARAM 121 or equivalent

5 hours lecture

Continuation of Aramaic II. Students will further their knowledge of classical-modern Aramaic grammar. The primary emphasis is on the conjugation of verbs, introduction to Aramaic literature, and the translation of ancient and modern text materials. Students will also learn how to compose and write essays in modern Aramaic (Chaldean).

AA/AS GE, CSU, CSU GE, IGETC, UC

ART (ART)

Courses Related in Content (see page 35)

100 ART APPRECIATION 3 UNITS

C-ID ARTH 100

3 hours lecture

In this introductory course, students will learn how to examine, compare, analyze, evaluate, interpret, and discuss works of visual art within their cultural contexts. Art media for study will include drawing, painting, printmaking, photography, sculpture, ceramics, textiles, film, architecture, etc. Works for examination will encompass representative artistic styles from western and other major world cultures, and will also include the artistic contributions of women and minority cultures.

AA/AS GE, CSU, CSU GE, IGETC, UC

120 TWO-DIMENSIONAL DESIGN 3 UNITS

C-ID ARTS 100

2 hours lecture, 4 hours laboratory

Introduction to the two-dimensional arts. Students will study the great works of the human imagination while focusing on those of historical, theoretical and cultural relevance. Students will examine form and content through the application of art elements and principles of design.

AA/AS GE, CSU, CSU GE, IGETC, UC

121 PAINTING I 3 UNITS

C-ID ARTS 110

Prerequisite: "C" grade or higher or "Pass" in ART 120 or 124 or equivalent

2 hours lecture, 4 hours laboratory

Introduction to painting with an emphasis on painting tools, materials, techniques and color principles. Students will develop skill in handling form, space, and plastic aspects of acrylic and/or oil paints.

CSU, UC

124 DRAWING I 3 UNITS

C-ID ARTS 110

2 hours lecture, 4 hours laboratory

Introduction to drawing theory and practice. Students will study major works of art in relation to drawing techniques, illusion of space, and composition through a variety of media.

AA/AS GE, CSU, UC

125 DRAWING II 3 UNITS

C-ID ARTS 205

Prerequisite: "C" grade or higher or "Pass" in ART 124 or equivalent

2 hours lecture, 4 hours laboratory

Builds on the drawing techniques and composition concepts covered in ART 124 to include new mediums to address creative problem solving and refine drawing skills. Introduces brush, pen and ink into the drawing process with an emphasis on line quality and modeling using washes, hatching and stippling. Colored pencil and mixed media are explored using a variety of linear and tonal techniques. Scientific perspective is extended from ART 124 to include measuring, inclining planes, circles, shadows and reflections.

CSU, UC

129 THREE-DIMENSIONAL DESIGN 3 UNITS

C-ID ARTS 101

2 hours lecture, 4 hours laboratory

Introduction to the fundamental principles of three-dimensional composition emphasizing the formal elements and language of design. Basic visual, tactile and conceptual methods of defining space are examined in a series of compositional exercises. A variety of materials are used to explore the elements of line, shape, mass, texture and volume through the application of design principles such as

balance, emphasis, rhythm, harmony, contrast, repetition, proportion, scale and unity. The historical development of design and aesthetics is studied along with how social, political and cultural beliefs have influenced artists and design professionals. Assignments are non-technical and do not require prior knowledge of tools and equipment. This is a comprehensive introductory course that could lead to future study in a diverse range of art and design professions.

AA/AS GE, CSU, UC

135 WATERCOLOR I 3 UNITS

2 hours lecture, 4 hours laboratory

Introduction to basic watercolor tools, materials and techniques emphasizing color principles and skill development in watercolor media.

CSU, UC

140 SURVEY OF WESTERN ART I: PREHISTORY THROUGH MIDDLE AGES 3 UNITS

C-ID ARTH 110

3 hours lecture

Historical survey of the major art forms (primarily architecture, sculpture, ceramics, painting) of the western world from prehistory to circa 1250 A.D.

AA/AS GE, CSU, CSU GE, IGETC, UC

141 SURVEY OF WESTERN ART II: RENAISSANCE THROUGH MODERN 3 UNITS

C-ID ARTH 120

3 hours lecture

Historical survey of the major art forms (primarily architecture, sculpture, ceramics, painting, printmaking, photography) of the western world from the late Gothic era to the present.

AA/AS GE, CSU, CSU GE, IGETC, UC

143 MODERN ART 3 UNITS

C-ID ARTH 150

3 hours lecture

Historical survey of the major art forms (primarily architecture, sculpture, ceramics, painting, printmaking and photography) of the late nineteenth and twentieth centuries with geographical emphasis on Europe and America.

AA/AS GE, CSU, CSU GE, IGETC, UC

144 ARCHITECTURE OF THE 20TH CENTURY 3 UNITS

3 hours lecture

Historical survey of the 20th century masters of the major movements in architecture and environmental spaces. Global political and social economic influences on concepts, styles, philosophy and artistic expressions in architecture will be studied.

AA/AS GE, CSU, CSU GE, IGETC, UC

145 CONTEMPORARY ART 3 UNITS

3 hours lecture

Survey of the major artists and art movements from 1945 to the present. Includes such major topics as the analysis and summary of Modernism, the transition from Modern to Post-Modern art, the emergence of non-traditional art media, and the analysis of the influence of global multiculturalism in art. Specific art practices such as painting, sculpture, earthworks, photography, performance, installation, printmaking and architecture will be discussed in relation to the cultural dialogue they establish or to which they respond.

AA/AS GE, CSU, CSU GE, IGETC, UC

146 ASIAN ART 3 UNITS

C-ID ARTH 130

3 hours lecture

This course provides a select overview of art and architecture from India, Southeast Asia, China, Korea, and Japan, from prehistory to modern times with an emphasis on content,

context, and style. The course covers subject matter, function, iconography, patronage, artistic methods and influences, and social and cultural contexts of artworks and monuments. The course includes art from: the Indus Valley, Early Buddhist and Hindu Art in Southeast Asia, later Indian art including Mughal, Neolithic through early Imperial China, Northern Wei through Tang dynasties, later China through contemporary era, Korea, archeological Japan through Heian, and later Japan through contemporary era.

AA/AS GE, CSU, CSU GE, IGETC, UC

148 APPLIED DESIGN AND CRAFTS 3 UNITS

C-ID ARTS 280

2 hours lecture, 4 hours laboratory

Design and construction of aesthetic and functional art projects using a variety of materials and processes to create applied design and crafts from a global perspective.

AA/AS GE, CSU, CSU GE, UC

149 HISTORY OF GRAPHIC DESIGN 3 UNITS

3 hours lecture

This course examines graphic design as a vital component of each culture and period in human history. Leaders in design, innovated technologies and import design movements are covered in their historical context. This course is for students majoring graphic design, art history, studio arts and anyone interested in the history of graphic design.

AA/AS GE, CSU, CSU GE, UC

177 DIGITAL DRAWING AND PAINTING 3 UNITS

2 hours lecture, 4 hours laboratory

This introductory course uses computer based technologies and its application for digital drawings and paintings. Students will develop digital images that showcase perceptual skills, conceptual strategies, production methods and narrative compositions using various software.

CSU, UC

220 PAINTING II 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in ART 121 or equivalent

2 hours lecture, 4 hours laboratory

Continuation of Painting I with an emphasis on creative problem-solving skills. Students will develop a personal style of expression.

CSU, UC

221 PAINTING III 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in ART 220 or equivalent

2 hours lecture, 4 hours laboratory

Offers a wider selection of painting mediums to include acrylic, oil, egg tempera, casein and encaustic. Students will continue developing a personal style of expression.

CSU, UC

222 PAINTING IV 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in ART 221 or equivalent

2 hours lecture, 4 hours laboratory

Focuses on a series of paintings that develop a personal theme or statement. Advanced painting techniques will be combined with advanced compositional devices.

CSU, UC

224 DRAWING III 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in ART 125 or equivalent

2 hours lecture, 4 hours laboratory

The drawing mediums, skills, techniques and composition concepts used in ART 124 and 125 will be applied to a variety of subject matters. Students will draw different subject matters including but not limited to animals, plants, still life, landscapes, seascapes, cityscapes, etc.

Emphasis is on making effective compositions with good craft.

CSU, UC

225 DRAWING IV 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in ART 224 or equivalent

2 hours lecture, 4 hours laboratory

Focuses on drawing-based artwork that results in artwork that has a personal theme or statement. Students will explore several advanced compositional devices while pursuing their themes. Portfolio preparation is emphasized.

CSU, UC

230 FIGURE DRAWING I 3 UNITS

C-ID ARTS 200

Prerequisite: "C" grade or higher or "Pass" in ART 124 or equivalent

2 hours lecture, 4 hours laboratory

Utilizes the skills and concepts developed in ART 124 to address the drawing of the nude human figure. Students will learn how articulation, standard proportion, bones and muscles influence the rendering of the human form. Drawing will be done from live models with studio lighting. Emphasis is on representational drawing with line and value. This course is important for anyone dealing with the human figure, i.e., drawing, painting, sculpture, photography, illustration, graphic design, fashion design, etc.

CSU, UC

231 FIGURE DRAWING II 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in ART 230 or equivalent

2 hours lecture, 4 hours laboratory

Builds on the concepts and skills developed in ART 230. Surface anatomy related to the bone and muscle structure of the nude human form is studied along with the proportions and anatomy of the human head. Students will work with achromatic and chromatic drawing mediums.

CSU, UC

232 FIGURE DRAWING III 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in ART 231 or equivalent

2 hours lecture, 4 hours laboratory

Concentrates on integrating the human figure into a compositional environment. Figure drawing techniques from ART 230 and 231 will be integrated into the design process.

CSU, UC

233 FIGURE DRAWING IV 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in ART 232 or equivalent

2 hours lecture, 4 hours laboratory

Focuses on figurative artwork that develops a personal theme or statement. Students will be asked to explore several advanced compositional devices while pursuing their themes. This class emphasizes portfolio preparation.

CSU, UC

235 WATERCOLOR II 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in ART 135 or equivalent

2 hours lecture, 4 hours laboratory

Continuation of Watercolor I techniques with an emphasis on creative problem solving and aesthetic compositions.

CSU, UC

236 WATERCOLOR III 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in ART 235 or equivalent

2 hours lecture, 4 hours laboratory

Continuation of Watercolor II skill and composition techniques. Students will develop a personal style of expression.

CSU, UC

241 ILLUSTRATION I 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in ART 124 or equivalent

2 hours lecture, 4 hours laboratory

This course serves as an introduction to illustration. The course stresses the creative interpretation of subjects, situations, and themes within the context of commercial art such as advertising, editorial, book illustrations, cartooning, and renderings. Emphasis is on developing and communicating visual ideas and imagery. Various media and techniques will be explored.

CSU, UC

242 ILLUSTRATION II 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in ART 241 or equivalent

2 hours lecture, 4 hours laboratory

This course is a continuation of the concepts and techniques presented in Illustration I. Increasingly more advanced illustration projects, techniques, concepts and methods will be presented. Emphasis is placed on the development of original concepts, refinements of techniques, production methods and development and presentation of portfolio quality artwork. In addition, rendering will be presented and incorporated in several projects.

CSU, UC

ASTRONOMY (ASTR)

110 DESCRIPTIVE ASTRONOMY 3 UNITS

3 hours lecture

The development of modern astronomy and its techniques with an emphasis on the vocabulary of astronomy and the current understanding of our solar system, stellar evolution, our galaxy, and the structure of the universe.

AA/AS GE, CSU, CSU GE, IGETC, UC

112 GENERAL ASTRONOMY LABORATORY 1 UNIT

Prerequisite: "C" grade or higher or "Pass" in ASTR 110 or equivalent or concurrent enrollment

3 hours laboratory

Planet, stellar and lunar studies; acquaintance with constellations and astronomical coordinates; and use of astronomical instruments.

AA/AS GE, CSU, CSU GE, IGETC, UC

AUTOMOTIVE TECHNOLOGY (AUTO)

099 INTRODUCTION TO AUTOMOTIVE TECHNOLOGY 3 UNITS

C-ID AUTO 110X

3 hours lecture

This course presents basic information about automotive systems. Serves as a recommended preparation course for students interested in the Automotive Technology major.

CSU

100 INTRODUCTION TO AUTOMOTIVE TECHNOLOGY LAB 1 UNIT

C-ID AUTO 110X

3 hours laboratory

Basic laboratory environment designed to prepare students for entry into the Automotive Technology major. Covers repairing, servicing and basic diagnostic procedures of a typical passenger car or light truck.

CSU

120 ENGINE PERFORMANCE I - MECHANICAL AND IGNITION SYSTEMS 5 UNITS

Prerequisite: "C" grade or higher or "Pass" in AUTO 099 or 100 or equivalent or concurrent enrollment

3 hours lecture, 6 hours laboratory

First in a three course series dealing with engine performance. Begins with a review of basic engine mechanical systems and an introduction to vehicle emissions and computer scanners, followed by a detailed study of current ignition systems. Students will be required to complete associated tasks in the shop as specified by NATEF (National Automotive Training Educational Foundation). Initial preparation for ASE Engine Performance (A-8) Certification.

CSU

122 AUTOMOTIVE ELECTRICAL SYSTEMS 5 UNITS

3 hours lecture, 6 hours laboratory

Basic principles of electricity as applied to automobiles. Comprehensive investigation of automotive electrical systems including periodic maintenance, diagnosis, component servicing and adjustment. Students will be expected to complete associated tasks in the shop as specified by NATEF (National Automotive Training Educational Foundation). Preparation for ASE A-6 Certification.

CSU

123 ENGINE PERFORMANCE II - EMISSION SYSTEMS 5 UNITS

Recommended Preparation: "C" grade or higher or "Pass" in AUTO 120 or equivalent, AUTO 122 or equivalent, AUTO 127 or equivalent

3 hours lecture, 6 hours laboratory

This is the second in a three course series demonstrating engine performance, applied electronics, and emission systems. AUTO 123 emphasizes the use of computers for the control of fuel and air delivery to the diesel or gasoline engine. Topics include: input and output devices, computer operation, closed loop fuel control, computer-controlled fuel injection, forced air injection, scan tool diagnostics, digital lab scope diagnostics, and on board diagnostics (OBD). Students will be required to complete associated tasks in the laboratory specified by NATEF (National Automotive Training Educational Foundation). This course prepares students for ASE: A-6 electrical, A-8 engine performance, and L1 advanced engine performance certification tests, and also satisfies California Bureau of Automotive Repair Specified Repair Training for emissions licensing.

CSU

124 ENGINE PERFORMANCE III - DRIVABILITY 5 UNITS

Recommended Preparation: "C" grade or higher or "Pass" in AUTO 123 or equivalent

3 hours lecture, 6 hours laboratory

The capstone course in a three course engine performance series. Students will utilize skills developed in the first two courses to perform drivability diagnostics on all related engine systems. Emphasis on advanced application of scan tools and digital storage oscilloscopes (DSO) in the diagnosis of hard to find system problems, especially intermittent concerns. Students will be required to complete associated tasks in the shop as specified by NATEF (National Automotive Training Educational Foundation). Preparation for ASE Advanced Engine Performance (L-1) Certification.

CSU

127 ADVANCED AUTOMOTIVE ELECTRICAL SYSTEMS 5 UNITS

Prerequisite: "C" grade or higher or "Pass" in AUTO 122 or equivalent

3 hours lecture, 6 hours laboratory

Advanced course in electrical systems designed to develop greater student performance under simulated industry conditions. Students will be expected to complete associated tasks in the shop as specified by NATEF (National Automotive Training Educational Foundation). Preparation for ASE A-6 Certification.

CSU

129 INTRODUCTION TO HYBRID, ELECTRIC AND ALTERNATIVE FUELED VEHICLES 5 UNITS

C-ID ALTF 100X

3 hours lecture, 6 hours laboratory

Introductory course in the study of hybrid, electric, alternative fuels and their delivery systems for automotive and light trucks. The main focus is on hybrid vehicles; additionally, electric and alternative fueled vehicles will be covered to include alcohol, diesel, CNG (Compressed Natural Gas) and LPG (Liquefied Petroleum Gas) systems. Fuel cell technologies will be discussed. Topics include environmental and political concerns, pros and cons of various alternative fuels, and hybrid and electric options. Proper safety procedures for CNG, LPG, hybrid, electric and diesel systems will be emphasized. The properties, chemical structure, and safety concerns of various alternative fuels will be stressed. Electrical/electronic diagnosis of the various systems will be covered in detail with specific case studies on live vehicles. Students are recommended to have a working knowledge of automotive electricity, drivability diagnosis, and automotive computer systems.

CSU

130 AUTOMOTIVE BRAKES AND BRAKE LICENSE 5 UNITS

C-ID AUTO 150X

3 hours lecture, 6 hours laboratory

Detailed study of automotive brake system service procedures. Laboratory experience covers drum and disc brake system inspection, adjustment and repair procedures, and antilock brake systems. Students will be required to complete associated tasks in the shop as specified by NATEF (National Automotive Training Educational Foundation). Preparation for State of California Official Brake Adjusters License and ASE A-5 Certification.

CSU

135 ADVANCED BRAKES 5 UNITS

Prerequisite: "C" grade or higher or "Pass" in AUTO 130 or equivalent

3 hours lecture, 6 hours laboratory

Advanced course in automotive brake systems emphasizing diagnosis. Designed to develop greater student performance under simulated industry conditions. Students will be required to complete associated tasks in the shop as specified by NATEF (National Automotive Training Educational Foundation). Preparation for State of California Official Brake Adjusters License and ASE A-5 Certification.

CSU

140 FOUR WHEEL ALIGNMENT 5 UNITS

C-ID AUTO 140X

3 hours lecture, 6 hours laboratory

Four wheel alignment principles as applied to checking and correcting alignment settings. Repair and replacement of suspension components, computerized steering and ride controls. Additional training in wheel balancing. Emphasis on practical experience on "live"