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Channel Islands - Academic Programs - Subject: Accounting

ACCT 210(3) Course ID:000101 01-JAN-1901

Financial Accounting

Introduction to accounting principles: accumulation, measurement, and evaluation of accounting data. Topics include internal controls, financial statement analysis and interpretation, and use of spreadsheets in accounting applications.

Components:

Lecture

ACCT 220(3) Course ID:000102 01-JAN-1901

Managerial Accounting

Continues the exploration of accounting principles and topics: investing and financing activities, cost and budgeting systems, cash flow analysis, accounting for debt and equity, and introduces using accounting data for decision-making.

Components: Lecture

ACCT 300(3) Course ID:000103 01-JAN-1901

Applied Managerial Accounting

Use of accounting data for budgeting, cost control, pricing, performance measurement, and general

decision-making within the business organization.

Components: Lecture

Requirement Group: Prerequisites: ACCT 210, ACCT 220

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<u>Channel Islands - Academic Programs - Subject: Anthropology</u>

ANTH 102(3) Course ID:000105 01-JAN-1901

Cultural Anthropology

The study of recent and modern societies using a cross-cultural perspective to gain an understanding on the range of human expression in culture and society. Issues discussed include ethnicity, gender, family structure, kinship, sex and marriage, socio-economic class, religion and the supernatural, language and culture, economics, political and social organization, art, and culture change.

Components: Lecture

Attributes: Social Perspectives

ANTH 103(3) Course ID:000106 01-JAN-1901

Human Beings: Biological and Cultural Evolution

Human biological and cultural evolution from 5 million years ago to the present using archaeological and physical anthropology. How and when did we become human? What physical and cultural adaptations were necessary as we spread across the Earth? How did hunters and gatherers become sedentary horticulturalists and pastoralists? What role did humans play in the domestication of plants and animals?

Components: Lecture

Attributes: Social Perspectives

ANTH 110(3) Course ID:000108 01-JAN-1901

Who Done It? An Introduction to Forensics

Interdisciplinary approaches to forensic science, with lectures based on Anthropology, Art, Biology, Chemistry, Computer Science, History, Literature, Physics, Psychology, Sociology. How have fictional detectives in novels, TV, and film reflected and influenced forensics? How have scientific and archaeological methods been incorporated into crime scene analysis? How have crimes been viewed and punished through time? How have different cultures defined crimes? How do forensic specialists identify forgeries in art, cartography, and documents? How have computer scientists contributed to forensics? How are cybercrimes solved? How do psychologists profile criminals? How do biologists use DNA, pollen, seeds, and insects to solve crimes? How do chemists and physicists analyze forensic materials?

Components: Lecture
Same As Offering: CHEM 110

Attributes: Life Science - Biology, Chemistry, Biochemistry, Social Perspectives

ANTH 120(3) Course ID:000137 01-JAN-1901

Co-evolution of Human and Natural Systems

Are natural systems real, or have humans so altered the Earth to meet our needs that no purely natural systems survive? This course examines the human impact on the environment from the discovery of fire to the present, using case studies from throughout the world, including fire farming in Australia, deforestation in Africa, Asia, and America; and human roles in faunal and floral extinctions through time.

Components: Lecture
Same As Offering: ESRM 120

Attributes: Social Perspectives

ANTH 320(3) Course ID:000140 01-JAN-1901

World Cultures: Peoples, Places and Things

This course examines the ethnology of cultures from throughout the world. Using archaeological, historical, and ethnographic sources, this course introduces the methods and theories used in placing comparative cross-cultural analysis in an ecological context. Focuses on issues of cultural history, environmental adaptations, political and economic systems, population, family, gender, religion, ideology, and contemporary issues in culturally distinct regions of the world.

Components: Lecture

Attributes: Languages and Cultures, Social Perspectives

ANTH 321(3) Course ID:000141 01-JAN-1901

World Cultures: Ethinicity in the United States

This course surveys the diversity of the United States from an historical perspective, tracing the various ethnic groups who came to the US and were variously assimilated. The myth of the American Melting Pot will be explored. Why did some groups cast off their ethnicity (or did they really?) while others maintained their ethnic identity for generations?

Components: Lecture

Attributes: Languages and Cultures, Social Perspectives

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Channel Islands - Academic Programs - Subject: Anthropology

ANTH 322(3) Course ID:000142 01-JAN-1901

World Cultures: North America

This course examines the development of Native American peoples and cultures as they adapted to their environments. The environmental history of the last glacial and post-glacial periods will be examined to provide a backdrop for human history. Using archaeological, historical, and ethnographic sources, the cultural history of these peoples will be traced from antiquity to the present, to provide the student with a broad context for understanding the region.

Components: Lecture

Attributes: Social Perspectives

ANTH 323(3) Course ID:000143 01-JAN-1901

World Culture: California to the 1850s

This course examines the development of Native American peoples and cultures in California as they adapted to the diverse environments there. The environmental history of the last glacial and post-glacial periods will be examined to provide a backdrop for human history. Using archaeological, historical, and ethnographic sources, the culture and history of California's Native Americans will be traced from antiquity to the 1850s. The impact of Spanish exploration, colonization, and the mission system will be traced from the perspectives of both the Native Americans and their colonizers.

Components: Lecture

Attributes: Social Perspectives

ANTH 330(4) Course ID:000144 01-JAN-1901

Ecology and the Environment

Ecological characteristics of natural ecosystems and basic effects of human society upon those systems. Plant and animal distribution patterns in relation to past and present physical and biotic factors. Issues of resource management, population, food production, global environmental problems will also be emphasized to explore future directions. A lab fee is required.

Components: Lecture, Laboratory

Same As Offering: BIOL 330

Attributes: Life Science - Biology, Chemistry, Biochemistry, Physical Sciences - Physics, Geology,

Earth Sci

ANTH 332(3) Course ID:000304 01-JAN-1901

Population and Resource Constraints

This human ecology course places humans into the environment in historical and global contexts. Discusses systems theory as it applies to human adaptation to the environment. Studies the relations between political power, ideology, and resources, integrating concepts from ecology with those from social sciences. Theories and forecasts of human population growth and migration among regions and cultures. Social and environmental impacts of population and age distribution. Natural resource constraints on growth. Topics from land development, resource planning, environmental quality, politics, economic growth, conflicts and wars.

Components: Lecture
Same As Offering: ESRM 332

Attributes: Social Perspectives

ANTH 333(3) Course ID:000148 01-JAN-1901

Civilizations of an Ancient Landscape: World Archaeology

Traces the relationship between the physical geography and the development of ancient civilizations in Pre-Columbian America, Africa, Asia, and Europe, beginning with the post-glacial period and ending with the rise of feudalism in Europe and Japan. The change from hunting and gathering groups to sedentary agriculturalists and pastoralists giving rise to later complex social organizations. Art, architecture, science, religion, economic trade and social systems are included.

Components: Lecture

Attributes: Social Perspectives

ANTH 334(3) Course ID:000150 01-JAN-1901

Wars and Conflicts in the Modern World

Cross-cultural perspectives on the development of the modern world in the future. Can the Earth sustain an American style culture for everyone? How do Third and Fourth World countries view the developed countries? Can conflicts over resources be resolved peacefully? This course examines war and terrorism in the context of resources and modernity.

Components: Lecture

Attributes: Social Perspectives

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Channel Islands - Academic Programs - Subject: Anthropology

ANTH 341(3) Course ID:000152 01-JAN-1901

Culture and Personality

This course provides a cross-cultural perspective on the relationships between culture and personality. The nature/nurture debate is examined in different cultures. Team taught with psychology.

Components: Lecture Same As Offering: PSY 341

Attributes: Social Perspectives, Human Psychological & Physiological Perspectives

ANTH 343(3) Course ID:000153 01-JAN-1901

Anthropology of Organizations

Anthropological perspective on human organizations in terms of communication, spatial relations, product development, technology, marketing, and group behavior. Explores principles of effectively organizing and directing work groups.

Components: Lecture Same As Offering: BUS 343

Attributes: Social Perspectives

ANTH 345(3) Course ID:000154 01-JAN-1901

Bioanthropology: Human Evolution and Diversity

Human biological evolution from the African savannah of 5 million years ago to the present, focusing upon adaptation to environmental conditions, disease, and diet. Includes segments on ecology, evolutionary theory, genetics, natural selection, non-human primates. Discusses the concept of race from an anthropological perspective. Includes issues of speciation and race, adaptation to cold, heat, desert, tropics, diseases. Compares ethnicity vs. race.

Components: Lecture

Attributes: Life Science - Biology, Chemistry, Biochemistry

ANTH 346(3) Course ID:000156 01-JAN-1901

Scientific and Professional Ethics

Discussion of ethical issues and societal challenges derived from scientific research and professional activities. Examines the sources, fundamental principles, and applications of ethical behavior; the relationship between personal ethics and social responsibility of organizations; and the stakeholder management concept. Applies ethical principles to different types of organizations: business, non-profits, government, healthcare, science/technology, and other professional groups. Topics also include integrity of scientific research and literature and responsibilities of scientists to society, intellectual property, ethical practices in professional fields, ethical dilemmas in using animal or human subjects in experimentation, gene cloning, animal cloning, gene manipulation, genetic engineering, genetic counseling, and ethical issues of applying biotechnology in agricultural fields. Emphasizes cases to explore ethical issues.

Components: Lecture

Same As Offering: BIOL 346, MGT 346, CHEM 346, MATH 346

Attributes: Social Perspectives

ANTH 443(3) Course ID:000169 01-JAN-1901 Medical Anthropology: Cross-Cultural Perspectives on Health and Healing

This course provides a cross-cultural perspective on human health issues. Uses biological, cultural, and behavioral approaches to understand the concepts of diseases and their treatment, ethnoscience, health, and alternative medicine placed in a global perspective.

Components: Lecture

ANTH 483(3) Course ID:000170 01-JAN-1901

Qualitative Research Methods in the Social Sciences

This course provides the student with an understanding of how social scientists collect and analyze data. Explores methods and procedures used in anthropology research, including creating a research design, interviewing, cross-verifying data, and interpreting data. This course also details the various methods employed by ethnographers, folklorists, and oral historians in collecting oral testimony in a structured, systematic method. Particular attention is given to ethical and legal issues.

Components: Lecture Same As Offering: PSY 483

ANTH 490(3) Course ID:000171 01-JAN-1901

Seminar in Anthropology

This seminar explores a different topic each term. Students may enroll up to four times in different seminars.

Components: Seminar

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Channel Islands - Academic Programs - Subject: Anthropology

ANTH 492(3) Course ID:000172 01-JAN-1901

Service Learning/Internship

Enrollment in this course is with permission of faculty member in charge. Individual internship through service learning.

Components: Lecture

ANTH 494(3) Course ID:000173 01-JAN-1901

Independent Study Research

Individual contracted study/research on topics selected by the student for further study. Enrollment in this course is with permission of faculty member in charge.

Components: Independent Study

ANTH 499(3) Course ID:000175 01-JAN-1901

Capstone Project

This course is an interdisciplinary experience in which students from diverse disciplines and majors work in teams, contributing their expertise to a community-based group project.

Components: Lecture

Requirement Group: Prerequisites: Senior standing

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<u> Channel Islands - Academic Programs - Subject: Art</u>

ART 100(3) Course ID:000177 01-JAN-1901

Understanding Fine Art Processes

Entry level experience for the non major. This course integrates elements of drawing, painting, sculpture and mixed media techniques. Students gain an understanding of the function of the Fine Arts in everyday life through participation in the artistic process. Not available for Art major credit. A lab fee is required.

Components: Lecture, Laboratory
Attributes: Fine Art Courses

ART 102(3) Course ID:000179 01-JAN-1901

Children's Art Media and Methods

Hands-on creation of artistic projects emphasize the importance of art in the child's development. Projects explore basic concepts and materials leading to the student's development of primary skills and an aesthetic appreciation for the creative process. A lab fee is required.

Components: Lecture, Laboratory Attributes: Fine Art Courses

ART 105(3) Course ID:000180 01-JAN-1901

Drawing and Composition

Basic fundamentals of drawing are explored through the use of various techniques and media. Investigations into line, value, perspective and composition as related to surface and pictorial space is also investigated.

Components: Laboratory

ART 106(3) Course ID:000181 01-JAN-1901

Color and Design

Explorations in basic color theory are conducted within two-and three-dimensional design contexts. Visual elements including line, shape, form and texture are explored along with elements of color interaction,

harmony and dissonance within a variety of visual motifs.

Components: Laboratory

ART 107(3) Course ID:000182 01-JAN-1901

Life Drawing

The study of the human figure and its representation depicted through gesture, contour value and volume. Anatomy, proportion, foreshortening and structure are explored through observation of props and live models.

Components: Laboratory

ART 108(3) Course ID:000184 01-JAN-1901

Visual Technologies

An introductory survey of visual technologies commonly used by artists and designers. Projects explore software applications as they relate to current methods of digital art production. Emphasis is on the development of fundamental computer skills and an understanding of the relationship between digital media and visual design. A lab fee is required.

Components: Lecture, Laboratory

ART 110(3) Course ID:000185 01-JAN-1901

Prehistoric Art to the Middle Ages

Survey of the history of art, artifacts and architecture from the Prehistoric era through the Gothic period. The examination of cultural and conceptual contexts will trace the early development of Western artistic traditions.

Components: Lecture

Attributes: Fine Art Courses

ART 111(3) Course ID:000186 01-JAN-1901

Renaissance to Modern Art

Survey of the history of art and architecture from the European Renaissance through the Modern Art. Cultural and conceptual contexts will examine the evolution of the art object as a form of Western cultural expression.

Components: Lecture

Attributes: Fine Art Courses

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Channel Islands - Academic Programs - Subject: Art

ART 112(3) Course ID:000187 01-JAN-1901

Arts of the Eastern World

Survey of the painting, architecture and crafts of India, China, Japan and Southeast Asia. An examination of artistic, cultural, and historical events explore the exchange of influences and ideas related to Eastern cultures.

Components: Lecture

Attributes: Fine Art Courses

ART 201(3) Course ID:000189 01-JAN-1901

Painting

An introduction to basic painting materials and techniques. Experiments in representational and abstract painting will explore oil, acrylic, and water-based media. Particular emphasis will be on the development of fundamental skills and the understanding of color, shape, surface and pictorial structure.

Laboratory Components:

Requirement Group: Prerequisites: ART 105, ART 106, ART 107

ART 202(3) Course ID:000190 01-JAN-1901

Sculpture

An introduction to basic sculpture materials and techniques. Experiments in representational and abstract sculpture will explore a variety of threedimensional materials through additive and subtractive sculptural processes. Particular emphasis will be on the development of fundamental skills and the understanding of design, form and structural elements.

Laboratory Components:

Requirement Group: Prerequisites: ART 105, ART 106, ART 107

ART 203(3) Course ID:000191 01-JAN-1901

Illustration

An introduction to basic illustration materials and rendering techniques. Experiments in a variety of media and styles explore quash, colored pencils, pen and ink, pastels and markers. Particular emphasis is on the development of fundamental skills and concepts required to execute successful illustrations.

Components: Laboratory

Requirement Group: Prerequisites: ART 105, ART 106, ART 107

ART 204(3) Course ID:000210 01-JAN-1901

Graphic Design

An introduction to basic concepts in graphic design for print and electronic media. Projects incorporating traditional and digital media explore typography, layout and visual design. Particular emphasis is on the development of fundamental skills leading to the ability to communicate ideas through the use of text and visual imagery.

Components: Laboratory

Requirement Group: Prerequisites: ART 105, ART 106, ART 108

ART 205(3) Course ID:000212 01-JAN-1901

Multimedia

An introduction to techniques and concepts involved in the production of interactive multimedia. Projects explore basic interactive technologies utilized in the creation of digital graphics, Websites and computer game designs.

Laboratory Components:

Requirement Group: Prerequisites: ART 105, ART 106, ART 108

Course ID:000213 ART 206(3) 01-JAN-1901

Animation

An introduction to basic techniques and processes involved in the production of animation. Projects include elements of concept and story development, character design, storyboarding, timing, key framing and inbetweening and cell production leading to the creation of short works in animation.

Components: Laboratory

Requirement Group: Prerequisites: ART 105, ART 106, ART 107, ART 108

ART 310(3) Course ID:000214 01-JAN-1901

Two-dimensional Media and Process

Studio projects explore media and methodologies in painting, drawing and other two-dimensional art forms. Assignments emphasize the integration of traditional art materials and techniques with related digital art technologies in the creation of two-dimensional art projects.

Components: Laboratory

Requirement Group: Prerequisites: ART 108, ART 201

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<u> Channel Islands - Academic Programs - Subject: Art</u>

ART 311(3) Course ID:000216 01-JAN-1901

Three-Dimensional Media and Processes

Studio projects explore media and methodologies in sculpture, ceramics and other three-dimensional art forms. Assignments emphasize the integration of traditional art materials and techniques with related digital art technologies in the creation of three-dimensional art projects.

Components: Laboratory

Requirement Group: Prerequisites: ART 108, ART 202

ART 312(3) Course ID:000217 01-JAN-1901

Time-based Digital Media and Processes

Studio projects explore media, methodologies and artistic concepts in digital imaging, non-linear video, digital animation graphics and visual effects. Assignments emphasize the integration of traditional art techniques with digital technology in the development of computer generated imagery and animation. Projects are presented in a digital format.

Components: Laboratory

Requirement Group: Prerequisites: ART 108, ART 205

ART 313(3) Course ID:000218 01-JAN-1901

Communication Design Technology Media and Processes

Studio projects explore media, methodologies in graphic design and multimedia. Assignments emphasize the integration of traditional design concepts with graphic design technology in projects created for print, internet applications and multimedia presentations.

Components: Laboratory

Requirement Group: Prerequisities: ART 108, ART 204

ART 320(3) Course ID:000219 01-JAN-1901

Studio Topics: Two-Dimensional Art

Studio topics explore thematic approaches in the development of visual continuity and technical competency working in painting, drawing and related art processes. At this phase of study, projects focus on the integration of artistic concept, technique and proficiency in the use of two-dimensional media in the creation of individual works of art.

Components: Laboratory

Requirement Group: Prerequisites: ART 310

ART 321(3) Course ID:000220 01-JAN-1901

Studio Topics: Three Dimensional Art

Studio topics explore thematic approaches in the development of visual continuity and technical competency working in sculpture, ceramics and related art processes. At this phase of study, projects focus on the integration of artistic concept, technique and proficiency in the use of three-dimensional media in the creation of individual works of art.

Components: Laboratory

Requirement Group: Prerequisites: ART 311

ART 322(3) Course ID:000221 01-JAN-1901

Studio Topics: Time-Based Digital Art

Studio topics incorporate thematic approaches in the development of visual continuity and technical competency working in digital imaging, video compositing, digital animation and visual effects. At this phase of study, projects focus on the integration of artistic concept and technological proficiency in the creation of time-based digital art projects presented on video, CD Rom or DVD.

Components: Laboratory

Requirement Group: Prerequisites: ART 312

ART 323(3) Course ID:000222 01-JAN-1901

Studio Topics: Communication Design Technology

Studio topics explore thematic approaches in the development of visual continuity and technical competency working in graphic design and multimedia. At this phase of study, projects focus on the integration of artistic concept and technological proficiency in the creation of design projects for print, Websites and interactive multimedia.

Components: Laboratory

Requirement Group: Prerequisites: ART 313

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Channel Islands - Academic Programs - Subject: Art

ART 326(3) Course ID:000223 01-JAN-1901

Digital Technologies: 3D Computer Animation

Studio topics explore applications of digital technologies utilized in the production of 3D computer animation. Projects involve wireframe modeling, texture mapping, lighting techniques, motion sequencing and animation techniques involved in the creation of computer generated animation projects.

Components: Laboratory

Requirement Group: Prerequisites: ART 206, ART 312

ART 330(3) Course ID:000225 01-JAN-1901

Critical Thinking in a Visual World

A critical look at subjective responses and objective reasoning in the assessment of visual images that permeate every day aspects of contemporary life. Comparative studies evaluate psychological impact of corporate logos, religious iconography and secular symbolism. The genesis of cultural icons are investigated from a historical perspective in relationship to their role in a global society.

Components: Lecture

Attributes: Fine Art Courses

ART 331(3) Course ID:000226 01-JAN-1901

Art and Mass Media

The study of synergetic relationships between visual art and human communication dating back to the roots of civilization. Comparative studies in art and communication link ancient traditions to the development of contemporary mass media including print, photography, film, television and the internet.

Components: Lecture

ART 332(3) Course ID:000227 01-JAN-1901

Multicultural Art Movements

A survey of the arts and crafts originating in African, Asian, Latin American, Middle Eastern and Native American cultures. Emphasis is on the understanding of traditions and historical contexts as well as the exploration of random intersections of indigenous methods and aesthetics.

Components: Lecture

Attributes: Fine Art Courses, Languages and Cultures

ART 333(3) Course ID:000228 01-JAN-1901

History of Southern California Chicana/O Art

A survey of the Southern California Chicano/a culture exploring the genesis, vitality and diversity represented in the painting, sculpture and artistic traditions of Mexican American artists. Historical movements, politics, cultural trends and Mexican folklore underlying the development of this dynamic style of art will be investigated within a variety of contexts.

Components: Lecture Same As Offering: HIST 333

Attributes: Fine Art Courses, Languages and Cultures

ART 334(3) Course ID:000230 01-JAN-1901

The Business of Art

Exploration into aspects of art world business including the financial activities of art consultants, private dealers, commercial galleries, public museums and international auction houses. Case studies in art marketing, gallery and museum management, contracts and commissions, as well as public image and career development will be investigated.

Components: Lecture Same As Offering: BUS 334

Attributes: Fine Art Courses, Social Perspectives

ART 335(3) Course ID:000232 01-JAN-1901

American Ethnic Images in Novels, Film and Art

An examination of the portrayal of ethnic groups from an interdisciplinary perspective that includes, but is not limited to, the literary, historical, and artistic modes of analysis. This course highlights the ways in which artistic works have shaped the intellectual landscape of the United States as they relate to ethnic peoples.

Components: Lecture

Same As Offering: ENGL 335, HIST 335

Attributes: Languages and Cultures, Social Perspectives

Requirement Group: Prerequisites: ENGL 100

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<u>Channel Islands - Academic Programs - Subject: Art</u>

ART 338(3) Course ID:000234 01-JAN-1901

Psychology of Art and Artists

An inquiry into the mind of the artist and the psychological dynamics that underlie the creative process. Emphasis is placed on deciphering personal allegory and universal symbolism hidden within a wide range of visual and conceptual genres in painting, sculpture, film and music. The self-image of the artist will be examined from private and public viewpoints.

Components: Lecture Same As Offering: PSY 338

Attributes: Fine Art Courses, Human Psychological & Physiological Perspectives

ART 420(3) Course ID:000250 01-JAN-1901

Advanced Artistic Problems: Two Dimensional

Investigations into the development of in-depth concepts, innovative into the development of in-depth concepts, innovative processes and personal artistic style. Students achieve increased artistic depth and advanced technical proficiency working in two-dimensional media leading to the development of a congruent body of work in painting, drawing and related art forms. Creation and presentation of a professional portfolio is a required component of the course work.

Components: Laboratory

Requirement Group: Prerequisites: ART 320

ART 421(3) Course ID:000449 01-JAN-1901

Advanced Artistic Problems: Three Dimensional Art

Investigations into the development of in-depth concepts, innovative processes and personal artistic style. Students achieve increased artistic depth and advanced technical proficiency working in three-dimensional media leading to the development of a congruent body of work in sculpture, ceramics and related art forms. Creation and presentation of a professional portfolio is a required component of the course work.

Components: Laboratory

Requirement Group: Prerequisites: ART 321

ART 422(3) Course ID:000252 01-JAN-1901

Advanced Artistic Problems: Time-Based Digital Art

Investigations into the development of in-depth concepts, innovative processes and personal artistic style. Students achieve increased artistic depth and advanced technical proficiency working in time-based digital media leading to the development of a congruent body of work in digital imaging, video, digital animation and visual effects. Creation and presentation of a professional video, CD Rom or DVD portfolio is a required component of the course work.

Components: Laboratory

Requirement Group: Prerequisites: ART 322

ART 423(3) Course ID:000254 01-JAN-1901

Advanced Artistic Problems: Communication Design Technology

Investigations into the development of in-depth design concepts, innovative processes and individual artistic style. Students achieve increased artistic depth and advanced technical proficiency working in graphic design, computer graphics, Web design, and multimedia authoring. Creation and presentation of a professional interactive multimedia portfolio is a required component of the course work.

Components: Laboratory

Requirement Group: Prerequisites: ART 323

ART 430(3) Course ID:000255 01-JAN-1901

Modern and Contemporary Art

From nineteenth century Impressionism, through twentieth-century Cubism, Surrealism, Abstract Expressionism and Pop Art, this course explores the gamut of concepts, periods, trends, and ""isms" culminating in international Post Modernism and New Genre art of the twenty-first century.

Components: Lecture

ART 431(3) Course ID:000245 01-JAN-1901

European Renaissance Literature and Art

The Renaissance of the 15th and 16th centuries in Europe and England provided the world with a new way of looking at humankind and our surroundings. By reading the literature of this period and studying the art produced during that time, we will gain an understanding of this ""rebirth" of the human spirit and a better understanding of the legacies of the Renaissance artists and writers.

Components: Lecture

Same As Offering: ENGL 431
Attributes: Fine Art Courses, Literature Courses
Requirement Group: Prerequisites: Upper division standing

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Instructor Consent Required

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ART 432(3) Course ID:000246 01-JAN-1901

Arts of the Harlem Renaissance

The Harlem Renaissance was one of the most exciting epochs in American history. The art, literature and music produced in Harlem during the `20s and `30s has had a significant impact on American and world cultures. In this class, we will study these art forms and their historical genesis and legacy.

Components: Lecture

Same As Offering: ENGL 432, MUS 432

Attributes: Fine Art Courses, Literature Courses
Requirement Group: Prerequisites: Upper division standing

ART 433(3) Course ID:000257 01-JAN-1901

Women in the Arts

An investigation into the historical roles and influences of women artists in Western and non-Western traditions. Women as subject matter in painting, sculpture, photography, film and video will also be explored as related to artistic, social, historical and political issues.

Components: Lecture

Attributes: Fine Art Courses, Social Perspectives
Requirement Group: Prerequisites: Upper division standing

ART 434(3) Course ID:000460 01-JAN-1901

The Museum

Need Description

Components: Lecture

ART 489(3) Course ID:000258 01-JAN-1901

Arts Seminar

Students interact with guest speakers, visiting artists, and industry professionals in a seminar environment. This course also affords students the opportunity to assess their training and summarize artistic achievements through projects that prepare them for a variety of careers in the arts.

Components: Seminar

Requirement Group: Prerequisites: Senior standing

ART 492(3) Course ID:000260 01-JAN-1901 Instructor Consent Required

Internship in the Arts

Experiential study in a professional artistic environment appropriate to student's interests and artistic goals. Service learning positions are arranged by the university, instructor or student in cooperation with local community organizations or businesses. Internship positions must meet specific criteria set by the university in accordance with the mission of the university.

Components: Lecture

Requirement Group: Prerequisites: Senior standing

ART 494(1 - 3) Course ID:000262 01-JAN-1901

Independent Study

Individualized student projects are created under the guidance of a sponsoring instructor. Independent field work and supervised studio work is required in the development and execution of art projects. Regular progress reports and meetings are mandatory throughout the semester. Project completion is required before receiving course credit.

Components: Independent Study

Requirement Group: Prerequisites: Senior standing

ART 499(3) Course ID:000264 01-JAN-1901 Instructor Consent Required

Arts Capstone Project

A culminating interdisciplinary experience in which students from various Fine Arts disciplines work in groups with non-art majors and community members on projects specifically designed to meet a common goal. Activities supervised by sponsoring faculty are executed on campus and/or on-site in conjunction with community businesses or organizations.

Components: Lecture

Requirement Group: Prerequisites: Senior standing

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Channel Islands - Academic Programs - Subject: Biology

BIOL 100(4) Course ID:000265 01-JAN-1901

General Biology

An introduction to organismal biology, including the diversity, structure, and function of prokaryotes, protists, fungi, plants, and animals. Also includes the principles of evolution, ecology and population biology. No credit given toward the biology major. A lab fee is required.

Components: Lecture, Laboratory

Attributes: Life Science - Biology, Chemistry, Biochemistry

BIOL 200(4) Course ID:000267 01-JAN-1901

Principles of Organismal and Population Biology

An introduction to organismal biology, including the diversity, comparative structure, organ system function, development, phylogeny, taxonomy and systematics of prokaryotes, protists, fungi, plants and animals. Discussion of the principles of evolution including speciation and natural selection, the environmental impact and ecosystem interaction of plants and animals, the behavior of animals, population genetics and population biology. A lab fee is required.

Components: Lecture, Laboratory

Attributes: Life Science - Biology, Chemistry, Biochemistry

BIOL 201(4) Course ID:000269 01-JAN-1901

Principles of Cell and Molecular Biology

This course will cover principles and applications of basic chemistry, biological macromolecules, prokaryotic and eucaryotic cell structure and function, homeostasis, metabolism including both respiration and photosynthesis, cell cycling, signal transduction, Mendelian genetics, molecular genetics including transcription and translation, and a brief introduction to virology and immunology. The philosophy of science, scientific method and experimental design are foundational to the course. A lab fee is required.

Components: Lecture, Laboratory

Attributes: Life Science - Biology, Chemistry, Biochemistry

Requirement Group: Prerequisites: CHEM 121and BIOL 200 (not required for students in Liberal Studies, Teaching & Learning

BIOL 202(4) Course ID:000271 01-JAN-1901

Biostatistics

Use of probability and statistics in the description and analysis of biological data collected from laboratory and or field experiments.

Components: Laboratory
Same As Offering: MATH 202

BIOL 210(4) Course ID:000272 01-JAN-1901

Human Anatomy and Physiology I

Gross and microscopic anatomy of the human body with integrated physiological functions of the nine body organ systems studied from organ system through cellular levels of organization including basic chemistry, cell metabolism, acid-base relationships, membrane function, basic genetics, alleles and inherited disorders. A lab fee is required.

Components: Lecture, Laboratory
Requirement Group: Prerequisites: BIOL 100

BIOL 211(4) Course ID:000273 01-JAN-1901

Human Anatomy and Physiology II

Continuation of BIOL 210. A lab fee is required.

Components: Lecture, Laboratory
Requirement Group: Prerequisites: BIOL 210

BIOL 212(3) Course ID:000275 01-JAN-1901

Neurobiology and Cognitive Science

Principles of brain organization and function underlying behavior. Topics include neuroanatomy and physiology of language, vision, sexual behavior, memory and abnormal behavior.

Components: Lecture
Same As Offering: PSY 212

Attributes: Life Science - Biology, Chemistry, Biochemistry, Human Psychological & Physiological

Perspectives

Requirement Group: Prerequisites: BIOL 100

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Channel Islands - Academic Programs - Subject: Biology

BIOL 300(4) Course ID:000277 01-JAN-1901

Cell Physiology

Detailed study of the organization and functioning of cells and cellular organelles at the cellular and molecular levels, emphasizing experimental approaches and structural and functional relationships and their regulation and control. Topics include macromolecules, membrane phenomena, metabolism, enzyme kinetics, and cellular events associated with excitable cells and tissues. Individual critique on a current aspect of cellular and molecular biology required. A lab fee is required.

Components: Lecture, Laboratory

Requirement Group: Prerequisites: CHEM 122; CHEM 311; CHEM 312; BIOL 201

BIOL 301(4) Course ID:000279 01-JAN-1901

Microbiology

Study of microorganisms of the environment, including disease-causing organisms, their structures and functions and their interactions to their host animals and the environment. A lab fee is required.

Components: Lecture, Laboratory

Requirement Group: Prerequisite: CHEM 122, BIOL 201

BIOL 302(3) Course ID:000280 01-JAN-1901

Genetics and Evolution

Principles of classical transmission genetics, population genetics and evolution, with an introduction to modern molecular genetics.

Components: Lecture

Requirement Group: Prerequisite: CHEM 122, BIOL 201

BIOL 310(4) Course ID:000281 01-JAN-1901

Animal Biology and Ecology

Animal adaptation and diversity and their relationship to the development of evolutionary theory and the environment. Identification of common invertebrate and vertebrate animals. A lab fee is required.

Components: Lecture, Laboratory

Requirement Group: Prerequisites: BIOL 100 or BIOL 201

BIOL 311(4) Course ID:000284 01-JAN-1901

Plant Biology and Ecology

A general introduction of diverse structures and functions of plants and their relationship to the environment. Identification of common, local native plants and plant communities, uses of native plants by Native Americans and human and environmental impacts on native plant communities. A lab fee is required.

Components: Lecture, Laboratory

Requirement Group: Prerequisites: BIOL 100 or BIOL 201

BIOL 312(4) Course ID:000285 01-JAN-1901

Marine Biology

Overview of complexity of marine life including marine plants and animals and the processes that underlie their distribution and abundance in open oceans, coastal regions, estuaries and wetlands. Diverse interactions of organisms in the intertidal zone, over the continental shelves and in the open oceans. A lab fee is required.

Components: Lecture, Laboratory
Requirement Group: Prerequisites: BIOL 201

BIOL 330(4) Course ID:000144 01-JAN-1901

Ecology and the Environment

Ecological characteristics of natural ecosystems and basic effects of human society upon those systems. Plant and animal distribution patterns in relation to past and present physical and biotic factors. Issues of resource management, population, food production, global environmental problems will also be emphasized to explore future directions. A lab fee is required.

Components: Lecture, Laboratory

Same As Offering: ANTH 330

Attributes: Life Science - Biology, Chemistry, Biochemistry, Physical Sciences - Physics, Geology,

Earth Sci

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Channel Islands - Academic Programs - Subject: Biology

BIOL 331(2) Course ID:000289 01-JAN-1901

Biotechnology in the 21st Century

Presentation of recent advances in biotechnology and discussion of societal implications. Topics include applications in basic research, medicine, Topics include applications in basic research, medicine, agriculture, consumer products and warfare. No credit given toward the biology major.

Components: Lecture

Attributes: Life Science - Biology, Chemistry, Biochemistry

BIOL 332(2) Course ID:000290 01-JAN-1901

Cancer and Society

The biological, clinical and psychological nature of cancer and its impact on society from perspectives of medical researchers and physicians. No credit given toward the biology major.

Components: Lecture

BIOL 333(2) Course ID:000324 01-JAN-1901

Emerging Public Health Issues

Discussion of emerging infectious diseases and other health related issues with global concerns such as AIDS, tuberculosis, sexually transmitted diseases, cardiovascular diseases. Animal and bird diseases which may be transmitted to people, food and blood safety issues, environmental public health hazards, immigration and public health issues, potential biological weapons and their impact on human and animal populations in the world and the ecosystem.

Components: Lecture

Attributes: Life Science - Biology, Chemistry, Biochemistry, Human Psychological & Physiological

Perspectives

BIOL 343(3) Course ID:000329 01-JAN-1901

Forensic Science

A survey of the various chemical and biological techniques used in obtaining and evaluating criminal evidence. Topics include: chromatography; mass spectrometry (LC-MS, GC-MS); atomic absorption spectrometry; IR, UV, fluorescence, and X-ray spectroscopies; fiber comparisons; drug analysis; arson/explosive residue analysis; toxicological studies; psychological profiling; blood typing; DNA analysis; population genetics; firearm identification; and fingerprint analysis. A lab fee is required.

Components: Lecture, Laboratory

Same As Offering: CHEM 343

Attributes: Life Science - Biology, Chemistry, Biochemistry

BIOL 346(3) Course ID:000156 01-JAN-1901

Scientific and Professional Ethics

Discussion of ethical issues and societal challenges derived from scientific research and professional activities. Examines the sources, fundamental principles, and applications of ethical behavior; the relationship between personal ethics and social responsibility of organizations; and the stakeholder management concept. Applies ethical principles to different types of organizations: business, non-profits, government, healthcare, science/technology, and other professional groups. Topics also include integrity of scientific research and literature and responsibilities of scientists to society, intellectual property, ethical practices in professional fields, ethical dilemmas in using animal or human subjects in experimentation, gene cloning, animal cloning, gene manipulation, genetic engineering, genetic counseling, and ethical issues of applying biotechnology in agricultural fields. Emphasizes cases to explore ethical issues.

Components: Lecture

Same As Offering: ANTH 346, MGT 346, CHEM 346, MATH 346

Attributes: Social Perspectives

BIOL 400(4) Course ID:000331 01-JAN-1901

Molecular Biology and Molecular Genetics

Study of informational macromolecules and how they direct molecular processes in both eukaryotic and prokaryotic cells. Topics include structure, function and regulation of the genetic material at the molecular level, gene organization, structures and functions of DNA, RNA and proteins, gene transcription and expression, RNA processing, genomics and proteomics. A lab fee is required.

Components: Lecture, Laboratory

Requirement Group: CHEM 314 & 315, 318 or 400; BIOL 300 and BIOL 302

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Channel Islands - Academic Programs - Subject: Biology

BIOL 401(5) Course ID:000334 01-JAN-1901

Biotechnology and Recombinant DNA Techniques

Theory and practice of various biotechnologies and recombinant DNA techniques applicable to research and development, drug discovery, clinical therapies, preventative medicine, agriculture, the criminal justice system and a variety of other fields. Modern techniques in genomics and proteomics will be introduced in the laboratories. A lab fee is required.

Components: Lecture, Laboratory

Requirement Group: Prerequisites: CHEM 318 or CHEM 400; BIOL 300 and BIOL 302

BIOL 402(3) Course ID:000336 01-JAN-1901

Toxicology

An in depth study of toxic chemicals and their interactions within the ecosystems. Topics include the origin, fate, chemical and biological detection, and quantification of pollutants and toxins and their impact on organisms at the molecular, biochemical, cellular, physiological, organismal and community levels of organization. Basic toxicology, genetic toxicology, environmental mutagenesis and the molecular basis of mutation induction will be covered.

Components: Lecture

Requirement Group: Prerequisite: CHEM 122, BIOL 201

BIOL 410(3) Course ID:000122 01-JAN-1901

Computer Application in Biomedical Fields

Current applications of computers and data processing technology to the understanding and solving of

specific problems in biomedical fields.

Components: Lecture
Same As Offering: COMP 410

Requirement Group: Prerequisites: BIOL 201

BIOL 420(4) Course ID:000338 01-JAN-1901

Cellular and Molecular Immunology

Study of cellular and molecular aspects of the immune system and its responses against infectious agents and/or environmental insults. Included are development of the organs and cells of the immune system, genetics of the molecules of the immune system and their functions and interactions during an immune response, immunological disorders such as immunodeficiencies, autoimmune diseases, transplantation and contemporary immunological techniques used in clinical diagnosis and other modern research and development applications. A lab fee is required.

Components: Lecture, Laboratory

Requirement Group: Prerequisites: CHEM 122; BIOL 300

BIOL 421(3) Course ID:000339 01-JAN-1901

Virology

Study of aspects of molecular structure, genetics, and replication of viruses and other sub-viral agents such as prions and viroids, virus-host interactions, pathogenesis of viral infections, diagnostic virology and antiviral vaccines and drugs; emphasis on human pathogens.

Components: Lecture

Requirement Group: Prerequisites: CHEM 122; BIOL 300

BIOL 422(4) Course ID:000341 01-JAN-1901

Molecular Plant Physiology

Study of principles and methods of plant physiology at molecular level combined with modern plant technology. Topics include plant tissue and cell culture, genetic engineering and transformation, plant defense and genomics and applications of DNA technology. A lab fee is required.

Components: Lecture, Laboratory

Requirement Group: Prerequisites: CHEM 318 or 400; BIOL 311 recommended; BIOL 300

BIOL 423(3) Course ID:000343 01-JAN-1901

Cellular and Molecular Neurobiology

Study of the nervous system at cellular and molecular levels, including cellular structure of neurons and other types of neuronal cells and their functions and interactions, neurotransmitters and their functions and regulation, chemical agents and their effects on the neuronal cells and their functions and normal responses by the cells and the molecules of the nervous system and their response under adverse conditions.

Components: Lecture

Requirement Group: CHEM 122; BIOL 212 recommended; BIOL 300

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Channel Islands - Academic Programs - Subject: Biology

BIOL 424(3) Course ID:000346 01-JAN-1901

Human Physiology

Study of human physiology at both the cellular and organ system levels, including neurophysiology, muscle physiology, cardiovascular physiology, respiration, kidney function, hormone function and reproduction.

Components: Lecture

Requirement Group: Prerequisites: CHEM 122; BIOL 300

BIOL 425(3) Course ID:000347 01-JAN-1901

Human Genetics

Basic principles of human inheritance, including the transmission of genetic traits, chromosomal abnormalities and their effects, gene structure and function, pedigree analysis, gene mapping, cytogenetics, mutations and mutagenic agents, cancer genetics, molecular analysis of inherited diseases and genetically controlled phenomena in humans.

Components: Lecture

Requirement Group: Prerequisites: CHEM 122, BIOL 300, and BIOL 302

BIOL 426(4) Course ID:000349 01-JAN-1901

Embryology

Studies in comparative gametogenesis, morphogenesis and reproductive physiology. A lab fee is required.

Components: Lecture, Laboratory

Requirement Group: Prerequisites: CHEM 122; BIOL 300

BIOL 427(3) Course ID:000351 01-JAN-1901

Developmental Biology

Studies in human developmental sequences from fertilization to adolescence and examine how the developmental processes can be altered due to genetic, drug or environmental factors. Other animal systems (fly, frog, chick, mouse) will also be studied to aid in understanding anatomical, physiological, genetic and molecular mechanisms operating during gametogenesis, fertilization, cleavage, gastrulation and organogenesis.

Components: Lecture

Requirement Group: Prerequisites: CHEM 122; BIOL 300

BIOL 428(2) Course ID:000352 01-JAN-1901

Biology of Cancer

Principles of oncology are examined. Included are mechanisms of oncogenesis at cellular and molecular levels, characteristics of cancer, advantages and disadvantages of various therapies of cancer treatment.

Components: Lecture

Requirement Group: Prerequisites: CHEM 122; BIOL 300

BIOL 430(3) Course ID:000354 01-JAN-1901

Research Design and Data Analysis

Discussion of experimental design, sampling methods, data collection and methods of data analysis related to scientific fields.

Components: Laboratory

Same As Offering: CHEM 430, MATH 430

Attributes: Mathematics - Mathematics and Applications

Requirement Group: Prerequisites: CHEM 121 and 122

BIOL 431(4) Course ID:000127 01-JAN-1901

Bioinformatics

Basic computational models used in molecular biology and chemistry will be introduced. Topics include algorithms for string alignments, dynamic programming, structural superposition algorithms, computing with differential information, 3D motifs, Hidden Markov Models, phylogenetic trees, statistical/information techniques for pattern recognition, genetic algorithms. A lab fee is required.

Components: Laboratory

Same As Offering: COMP 431

Attributes: Mathematics - Mathematics and Applications

BIOL 432(3) Course ID:000364 01-JAN-1901

Principles of Epidemiology and Environmental Health

Distribution and dynamics of human health problems. Principles and procedures used to determine circumstances under which disease occurs or health prevails and to aid in managing and planning health and environmental systems. The broadened scope of epidemiology is examined through case studies and community and environmental health approach.

Components: Lecture

Requirement Group: Prerequisite: CHEM 122, BIOL 201

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Channel Islands - Academic Programs - Subject: Biology

BIOL 490(1 - 3) Course ID:000366 01-JAN-1901

Special Topics

Group study of a selected topic, the title of which is to be specified in advance. May be repeated for credits as topics change.

Components: Lecture

Requirement Group: Prerequisites: CHEM 122; BIOL 300

BIOL 491(1 - 3) Course ID:000367 01-JAN-1901

Special Laboratory Topics

Group laboratory study of a selected topic, the title of which is to be specified in advance. May be repeated

for credits as topics change. A lab fee is required.

Components: Laboratory
Requirement Group: Prerequisites: CHEM 122; BIOL 300

BIOL 492(2 - 3) Course ID:000368 01-JAN-1901

Biotech Internship

Supervised work and study in work situations involving biological research, technical skills, and service learning. Up to three units may be applied toward degree in biology program. All students are required to attend the Biology Program Senior Capstone Colloquium scheduled at the end of each semester to present their projects.

Components: Lecture

Requirement Group: CHEM 318 or 400; BIOL 400 and 401

BIOL 494(2) Course ID:000369 01-JAN-1901

Independent Research

Laboratory and/or library research in selected areas in biology conducted under the direction of a faculty member. A total of four units by taking the course twice may be applied toward graduation. All students are required to attend the Biology Program Senior Capstone Colloquium scheduled at the end of each semester to present their projects.

Components: Independent Study

Requirement Group: Prerequisite: CHEM 122 or 311 and 312, 318 or 400, BIOL 300

BIOL 497(2) Course ID:000370 01-JAN-1901

Directed Study

Reading and library research in an area of biology conducted under the direction of a faculty member in Biology. No more than two units may be applied toward graduation. All students are required to attend the Biology Program Senior Capstone Colloquium scheduled at the end of each semester to present their projects.

Components: Independent Study

Requirement Group: Prerequisites: CHEM 122; BIOL 300

BIOL 499(1) Course ID:000372 01-JAN-1901

Senior Capstone Colloquium

Oral presentation of completed or work-in-progress projects of BIOL 492, 494, or 497 courses.

Components: Lecture

Requirement Group: Prerequisites: BIOL 492, 494 or 497

Requirement Group: Prerequisites. BIOL 492, 494 or 497

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Channel Islands - Academic Programs - Subject: Business

BUS 110(3) Course ID:000373 01-JAN-1901

Business Law

Introduction to the legal and regulatory environment of business, emphasizing the US legal system. Topics include contracts, personal property, litigation, labor agreements and international trade.

Components: Lecture

BUS 300(3) Course ID:000464 01-JAN-1901

Business Finance Need Description

Components: Lecture

-

BUS 320(3) Course ID:000462 01-JAN-1901

Business Operations Need description

Components: Lecture

Attributes: Fine Art Courses

BUS 334(3) Course ID:000230 01-JAN-1901

The Business of Art

Exploration into aspects of art world business including the financial activities of art consultants, private dealers, commercial galleries, public museums and international auction houses. Case studies in art marketing, gallery and museum management, contracts and commissions, as well as public image and career development will be investigated.

Components: Lecture Same As Offering: ART 334

Attributes: Fine Art Courses, Social Perspectives

BUS 340(3) Course ID:000160 01-JAN-1901

Business and Money in the American Novel

What is money, really? How does it work in our society and literature? These are the starting questions which will form the core of exploration as we read and discuss works of American literature.

Components: Lecture

Same As Offering: ECON 340, ENGL 340

Attributes: Critical Thinking, Literature Courses, Languages and Cultures

BUS 341(3) Course ID:000161 01-JAN-1901

Drug Discovery and Development

How are drugs discovered? What determines the price for a drug? What is the difference between a generic and non-generic drug? These questions will be examined with an interdisciplinary approach. Topics to be covered may include the isolation of compounds from natural sources, the screening of compounds for biological activity, structureactivity relationships of drugs, computer-assisted drug design, combinatorial chemistry, bioinformatics, the FDA approval process for new drugs and the economic and business aspects of pharmaceutical development.

Components: Lecture

Same As Offering: ECON 341, CHEM 341

Attributes: Life Science - Biology, Chemistry, Biochemistry, Social Perspectives

BUS 343(3) Course ID:000153 01-JAN-1901

Anthropology of Organizations

Anthropological perspective on human organizations in terms of communication, spatial relations, product development, technology, marketing, and group behavior. Explores principles of effectively organizing and directing work groups.

Components: Lecture
Same As Offering: ANTH 343

Attributes: Social Perspectives

BUS 349(3) Course ID:000163 01-JAN-1901

History of Business and Economics in North America

Examines the growth and development of economies of North America since colonial times. Addresses social, ethical, economic and management issues during the development of Canada, the United States and Mexico. Analyzes the business principles underlying the growth and development of the economies.

Components: Lecture

Same As Offering: ECON 349, HIST 349
Attributes: Social Perspectives

Attributes: Social Perspectives

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Instructor Consent Required

Channel Islands - Academic Programs - Subject: Business

01-JAN-1901

BUS 410(3) Course ID:000377 01-JAN-1901 Instructor Consent Required

Special Topics in Business

In-depth exploration and analysis of topics significant to the contemporary environment. Includes a major

research project based on the local business community.

Components: Lecture

Requirement Group: Prerequisites: Senior standing

Course ID:000379

BUS 420(3) Cases in Strategy

A case study seminar that integrates functional areas of business into the development and analysis of strategy and strategic planning. An emphasis will be on practical strategic solutions that could reasonably lead to success in the marketplace.

Components: Lecture

Requirement Group: Prerequisites: Senior standing

BUS 424(3) Course ID:000381 01-JAN-1901

Business in its Social Setting

Analytical and interdisciplinary investigation of the evolution and contemporary status of business, especially relative to its environment - political, social, ethical, legal and economic. The dynamic nature of these environmental elements and their inter-relationships are analyzed through case studies and research projects.

Components: Lecture

Attributes: Social Perspectives

BUS 499(3) Course ID:000382 01-JAN-1901

Capstone: Global Strategic Simulation

Provides an integration of all prior business core subject matter by requiring teams of students to participate in a PC-based simulation of an ongoing (fictitious) international business. Requires decision-making under uncertainty, but within strict deadlines, competitor analysis and formal oral/written reporting of results. Also, provides interdisciplinary exposure to complex business cases via Web-based analytical tools.

Components: Lecture

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Channel Islands - Academic Programs - Subject: Chemistry

CHEM 100(4) Course ID:000384 01-JAN-1901

Chemistry and Society

An introduction to the basic principles of chemistry and a consideration of the benefits and problems arising from applications of chemistry. Discussions of foods and food additives, drugs, plastics and other materials of everyday life, fuel sources, the atmosphere, and fresh water. Intended for the non-chemistry major. A lab fee is required.

Components: Lecture, Laboratory

Attributes: Life Science - Biology, Chemistry, Biochemistry

CHEM 105(3) Course ID:000437 01-JAN-1901

Introduction to Chemistry

A one-semester course that introduces the basic principles and concepts in Chemistry. Topics covered include: measurements, units and unit conversion, scientific notation, stoichiometry, atomic structure, the concept of the mole, types of compounds, and problem solving. Intended for the non-chemistry major.

Components: Lecture

CHEM 110(3) Course ID:000108 01-JAN-1901

Who Done It? An Introduction to Forensics

Interdisciplinary approaches to forensic science, with lectures based on Anthropology, Art, Biology, Chemistry, Computer Science, History, Literature, Physics, Psychology, Sociology. How have fictional detectives in novels, TV, and film reflected and influenced forensics? How have scientific and archaeological methods been incorporated into crime scene analysis? How have crimes been viewed and punished through time? How have different cultures defined crimes? How do forensic specialists identify forgeries in art, cartography, and documents? How have computer scientists contributed to forensics? How are cybercrimes solved? How do psychologists profile criminals? How do biologists use DNA, pollen, seeds, and insects to solve crimes? How do chemists and physicists analyze forensic materials?

Components: Lecture
Same As Offering: ANTH 110

Attributes: Life Science - Biology, Chemistry, Biochemistry, Social Perspectives

CHEM 121(4) Course ID:000388 01-JAN-1901

General Chemistry I and Laboratory

An introductory chemistry course which provides an overview of the chemical and physical behavior of matter with a focus on qualitative and quantitative general inorganic, physical, and analytical chemistry. A lab fee is required.

Components: Lecture, Laboratory

Attributes: Life Science - Biology, Chemistry, Biochemistry

CHEM 122(4) Course ID:000414 01-JAN-1901

General Chemistry II and Laboratory

An introductory chemistry course which provides an overview of the chemical and physical behavior of matter with a focus on quantitative general inorganic, physical, and analytical chemistry including kinetics and thermodynamics of reactions, gas phase and solution equilibria and qualitative aspects of radiochemistry, organic chemistry, and polymer chemistry. A lab fee is required.

Components: Lecture, Laboratory

Attributes: Life Science - Biology, Chemistry, Biochemistry

Requirement Group: Prerequisites: CHEM 121

CHEM 170(4) Course ID:000416 01-JAN-1901

Physical Sciences for the Elementary School Teacher

Designed to provide K-8 elementary school teachers with an understanding of the physical sciences (Chemistry and Physics) with a focus on (1) the structure and properties of matter and (2) the principles of motion and energy. The areas covered in this course include the physical properties of solids, liquids, and gases; physical and chemical changes in matter; atomic theory and the periodic table; the principles of motion and energy; forces and the motion of particles; sources and transformations of energy including heat, electricity, magnetism, light, and sound; renewable and non-renewable energy sources; and the conservation of energy resources. The laboratory component of this course focuses on demonstrations for the K-8 classroom. Intended for the non-chemistry major. A lab fee is required.

Components: Lecture, Laboratory

Attributes: Life Science - Biology, Chemistry, Biochemistry, Physical Sciences - Physics, Geology,

Earth Sci

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Channel Islands - Academic Programs - Subject: Chemistry

CHEM 250(2) Course ID:000418 01-JAN-1901

Quantitative Analysis

An examination of the theory and techniques involved in the quantification of inorganic, organic, and biological species from samples with an emphasis on the environmental, biological, and medical applications of the analysis techniques.

Components: Lecture

Requirement Group: Corequisite: CHEM 251. CHEM 122

CHEM 251(2) Course ID:000420 01-JAN-1901

Quantitative Analysis Laboratory

A laboratory course designed to provide students with an exposure to the techniques used in the quantification of inorganic, organic, and biological species from samples using gravimetric and volumetric analyses, potentiometric titrations, atomic absorption spectrometry, UV-visible spectroscopy, GC, and GC/MS. A lab fee is required.

Components: Laboratory

CHEM 311(3) Course ID:000421 01-JAN-1901

Organic Chemistry I

The structure and reactions of simple organic molecules and spectroscopic techniques (NMR, GC-MS, IR, and UV-visible) used to characterize molecules. Students interested in pre-professional programs (premedical, pre-veterinary, pre-dental, and pre-pharmacy) should take this course.

Components: Lecture

Requirement Group: Prerequisite: CHEM 122

CHEM 312(1) Course ID:000423 01-JAN-1901

Organic Chemistry I Laboratory

A laboratory course designed to provide students with an exposure to the techniques and hands-on access to the instrumentation (NMR, GC, GC-MS, LC, IR, and UV-visible) used to purify and characterize organic molecules resulting from organic reactions. A lab fee is required.

Components: Laboratory

Requirement Group: Prerequisite: CHEM 311

CHEM 313(1) Course ID:000425 01-JAN-1901

Organic Chemistry I Learning Community

An instructor/peer-supervised interactive problem-solving session for students in CHEM 311 where students work in small groups on problems related to the content in CHEM 311.

Components: Discussion

Requirement Group: Corequisite: Must be taken concurrently with CHEM 311

CHEM 314(3) Course ID:000426 01-JAN-1901

Organic Chemistry II

An examination of the structure, reactions, and spectroscopy of organic compounds containing one or more functional groups, and the structures and reactions of biologically relevant molecules. Students interested in pre-professional programs (pre-medical, pre-veterinary, pre-dental and pre-pharmacy) or obtaining a minor in Chemistry should take this course. A lab fee is required.

Components: Lecture, Laboratory
Requirement Group: Prerequisite: CHEM 311

CHEM 315(1) Course ID:000427 01-JAN-1901

Organic Chemistry II Laboratory

A laboratory course designed to provide students with experience in single-step and multi-step syntheses and characterization of organic molecules with hands-on access to instrumentation (NMR, GC, GC-MS, LC, IR, and UV-visible).

Components: Laboratory

Requirement Group: Prerequisites: CHEM 311; CHEM 312 and CHEM 314

CHEM 316(1) Course ID:000428 01-JAN-1901

Organic Chemistry II Learning Community

An instructor/peer-supervised interactive problem-solving session for students enrolled in CHEM 314 where students work in small groups on problems related to the content in CHEM 314.

Components: Discussion

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Channel Islands - Academic Programs - Subject: Chemistry

01-JAN-1901 CHEM 318(3) Course ID:000429

Biological Chemistry

An integrated Organic Chemistry II and Biochemistry course for biology students. The topics covered in this course include: the structure and synthesis of sugars, amino acids, DNA, RNA, proteins; enzyme catalysis and inhibition; and the reactions involved in biosynthetic and metabolic pathways. Students who are interested in pre-professional programs (premedical, pre-veterinary, pre-dental) or students interested in obtaining a minor in Chemistry should take CHEM 314. Intended for the nonchemistry major.

Lecture

Requirement Group: Prerequisite: CHEM 311

CHEM 341(3) Course ID:000161 01-JAN-1901

Drug Discovery and Development

How are drugs discovered? What determines the price for a drug? What is the difference between a generic and non-generic drug? These questions will be examined with an interdisciplinary approach. Topics to be covered may include the isolation of compounds from natural sources, the screening of compounds for biological activity, structureactivity relationships of drugs, computer-assisted drug design, combinatorial chemistry, bioinformatics, the FDA approval process for new drugs and the economic and business aspects of pharmaceutical development.

Components: Lecture

Same As Offering: ECON 341, BUS 341

Attributes: Life Science - Biology, Chemistry, Biochemistry, Social Perspectives

CHEM 343(3) Course ID:000329 01-JAN-1901

Forensic Science

A survey of the various chemical and biological techniques used in obtaining and evaluating criminal evidence. Topics include: chromatography; mass spectrometry (LC-MS, GC-MS); atomic absorption spectrometry; IR, UV, fluorescence, and X-ray spectroscopies; fiber comparisons; drug analysis; arson/explosive residue analysis; toxicological studies; psychological profiling; blood typing; DNA analysis; population genetics; firearm identification; and fingerprint analysis. A lab fee is required.

Components: Lecture, Laboratory

Same As Offering: BIOL 343

Attributes: Life Science - Biology, Chemistry, Biochemistry

CHEM 344(3) Course ID:000430 01-JAN-1901

Energy and Society

Survey of the physical, chemical, and engineering principles involved in the production of energy from current and potential sources and the economical, environmental, and political issues surrounding energy production. The course will also examine factors that influence worldwide energy policy. Examples of topics that may be included in this course include fossil fuels, solar energy, biomass, fuel cells, and nuclear (fission and fusion) processes.

Components: Lecture

Attributes: Life Science - Biology, Chemistry, Biochemistry

01-JAN-1901 CHEM 346(3) Course ID:000156

Scientific and Professional Ethics

Discussion of ethical issues and societal challenges derived from scientific research and professional activities. Examines the sources, fundamental principles, and applications of ethical behavior; the relationship between personal ethics and social responsibility of organizations; and the stakeholder management concept. Applies ethical principles to different types of organizations: business, non-profits, government, healthcare, science/technology, and other professional groups. Topics also include integrity of scientific research and literature and responsibilities of scientists to society, intellectual property, ethical practices in professional fields, ethical dilemmas in using animal or human subjects in experimentation, gene cloning, animal cloning, gene manipulation, genetic engineering, genetic counseling, and ethical issues of applying biotechnology in agricultural fields. Emphasizes cases to explore ethical

Components: Lecture

Same As Offering: ANTH 346, BIOL 346, MGT 346, MATH 346

Social Perspectives Attributes:

CHEM 350(3) Course ID:000431 01-JAN-1901

Physical Chemistry I

The fundamentals of physical chemistry including thermodynamics, equilibria, spectroscopy, and kinetics.

Components: Lecture

Requirement Group: Prerequisites: CHEM 122 and MATH 151

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Instructor Consent Required

Instructor Consent Required

Instructor Consent Required

Channel Islands - Academic Programs - Subject: Chemistry

CHEM 400(4) Course ID:000432 01-JAN-1901

Biochemistry I and Laboratory

An introduction to the physical and chemical properties of proteins and enzymes, enzymatic catalysis and inhibition, the biosynthesis of proteins and nucleic acids and biosynthetic and metabolic pathways. A lab fee is required.

Components: Lecture, Laboratory
Requirement Group: Prerequisite: CHEM 314

CHEM 430(3) Course ID:000354 01-JAN-1901

Research Design and Data Analysis

Discussion of experimental design, sampling methods, data collection and methods of data analysis related to scientific fields.

Components: Laboratory
Same As Offering: BIOL 430, MATH 430

Attributes: Mathematics - Mathematics and Applications

Requirement Group: Prerequisites: CHEM 121 and 122

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Special Topics in Chemistry

CHEM 490(1 - 3)

CHEM 492(1 - 3)

Specialized topics from the fields of Chemistry and Biochemistry.

Components: Lecture

Internship/Service Learning

Provides student credit for internship work and/or service learning in the community that culminates in a

written and oral report.

Components: Lecture

Independent Research

Provides student credit for independent research (laboratory or library) that culminates in a written and

oral report.

CHEM 494(1 - 3)

Components: Independent Study

Requirement Group: Prerequisite: CHEM 122 or 311 and 312, 318 or 400, BIOL 300

Course ID:000433

Course ID:000434

Course ID:000435

CHEM 497(1 - 3) Course ID:000436 01-JAN-1901 Instructor Consent Required

Directed Studies

Provides student credit for independent work.

Components: Independent Study

components. Independent Study

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Channel Islands - Academic Programs - Subject: Computer Information Systems

CIS 110(3) Course ID:000109 01-JAN-1901

Business Computer Systems

Introduces the fundamentals of computer information systems for business: terminology, hardware, software, database and network concepts. Provides hands-on experience in using PCs to address business problems.

Components: Lecture

CIS 310(3) Course ID:000110 01-JAN-1901

Management Info Systems

Application of computer-based information systems to the management of organizations. Topics include use of information to further the organization's mission and strategy, the role of users, the architecture of information, and development of decision-support processes for managers.

Components: Lecture

Requirement Group: Prerequisite: CIS 110

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Channel Islands - Academic Programs - Subject: Communication

COMM 210(3) Course ID:000107 01-JAN-1901

Interpersonal Communication

Analysis of the role communication plays in interpersonal relationships with special emphasis on intercultural communication. Oral interpersonal communication skills will be stressed.

Components: Lecture

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Channel Islands - Academic Programs - Subject: Computer Science

COMP 100(3) Course ID:000111 01-JAN-1901

Computers: Their Impact and Use

An introduction to the uses, concepts, techniques, and terminology of computing. Places the possibilities and problems of computer use in historical, economic, and social contexts. Shows how computers can assist in a wide range of personal, commercial, and organizational activities. Typical computer applications, including word processing, spreadsheets, and databases. Not open to Computer Science Majors.

Components: Lecture

COMP 101(3) Course ID:000112 01-JAN-1901

Computer Literacy

An introduction to computer applications, including Web applications, word processing, spreadsheets, databases and programming. Includes service learning component. Not open to Computer Science majors.

Components: Lecture

COMP 102(3) Course ID:000113 01-JAN-1901

Introduction to Algorithms

An introduction to the design, development and expression of algorithms. Algorithms and their stepwise refinement. Expression of algorithms in a formal language. This course is intended to be a first course in a two-course sequence, the second being a programming language laboratory.

Components: Lecture

COMP 103(3) Course ID:000114 01-JAN-1901

Computer Programming Introduction

An introduction to the design, development and expression of algorithms. Algorithms and their stepwise refinement. Expression of algorithms in a formal language. This course is intended to be a first course in programming language (for example VISUAL BASIC or C/C++).

Components: Lecture

COMP 150(4) Course ID:000115 01-JAN-1901

Object Oriented Programming

Introduction to algorithms, their representation, design, structuring, analysis and optimization. The course introduces the concept of object paradigm and teaches how to design and implement algorithms as structured programs in a high level language. Course includes programming lab.

Components: Lecture, Laboratory

COMP 151(4) Course ID:000116 01-JAN-1901

Data Structures and Program Design

Introduction to data structures and the algorithms that use them. Review of composite data types such as arrays, records, strings, and sets. The role of the abstract data type in program design. Definition, implementation, and application of data structures such as stacks, queues, linked lists, trees, and graphs. Recursion. Use of time complexity expressions in evaluating algorithms. Comparative study of sorting and searching algorithms.

Components: Lecture, Laboratory
Requirement Group: Prerequisite: COMP 150

COMP 162(3) Course ID:000117 01-JAN-1901

Computer Architecture and Assembly Language

An introduction to computer architecture, assembly language programming, system software and computer applications. Number systems and data representation. Internal organization of a computer. Primitive instructions and operations. Includes Assembly language, language translation principles and an overview of operation systems.

Components: Lecture

Requirement Group: Prerequisite: COMP 150

COMP 232(3) Course ID:000118 01-JAN-1901

Programming Languages

Discussion of issues in the design, implementation, and use of high-level programming languages. Provides historical background in addition to how languages reflect different design philosophies and user requirements. Includes technical issues in the design of major imperative (procedural) programming languages. Also includes other approaches to programming: functional programming, logic programming, and object-oriented programming.

Components: Lecture

Requirement Group: Prerequisite: COMP 151 and COMP 162

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Channel Islands - Academic Programs - Subject: Computer Science

COMP 262(3) Course ID:000119 01-JAN-1901

Computer Organization and Architecture

Extension of basic addressing concepts to more advanced addressability such as base register and self-relative addressing. Comparative computer architecture focusing on such organizations as multiple register processors and stack machines. Basics of virtual memory input-output. Introduction to the concept of microprogrammable systems. Low-level language translation process associated with assemblers. System functions such as relocatable loading and memory management. Application of data structure and hashing techniques to the above. Also includes other related topics.

Components: Lecture

Requirement Group: Prerequisite: COMP 151 and COMP 162

COMP 350(3) Course ID:000120 01-JAN-1901

Software Engineering

Concepts and techniques for systems engineering, requirements analysis, design, implementation and testing of large scale computer systems. Principles of software engineering for production of reliable, maintainable and portable software products. Emphasis on functional analysis and structured design techniques. Topics include unit, integration and systems testing, configuration management, and software quality assurance practices. Participation in group activities involving analysis, design and implementation of a software intensive system. Includes an introduction to Computer Aided Software Engineering (CASE).

Components: Lecture

Requirement Group: Prerequisites: COMP 232 and COMP 262

COMP 362(3) Course ID:000121 01-JAN-1901

Operating Systems

Examination of the principal types of systems including batch, multiprogramming, and time-sharing. Networked systems are also discussed. The salient problems associated with implementing systems are considered including interrupt or event driven systems, multi-tasking, storage and data base management, and input-output. Emphasis will be placed on some of the simple algorithms used to solve common problems encountered such as deadlocks, queue service, and multiple accesses to data. Projects will be implemented to reinforce the lectures.

Components: Lecture

Requirement Group: Prerequisite: COMP 262

COMP 410(3) Course ID:000122 01-JAN-1901

Computer Application in Biomedical Fields

Current applications of computers and data processing technology to the understanding and solving of specific problems in biomedical fields.

Components: Lecture
Same As Offering: BIOL 410

Requirement Group: Prerequisites: BIOL 201

COMP 420(3) Course ID:000123 01-JAN-1901

Database Theory and Design

Database structure including: structure definition, data models, semantics of relations, and operation on data models. Database schemas: element definition, use and manipulation of the schema. Elements of implementation. Algebra of relations on a database. Hierarchical data bases. Discussion of information retrieval, reliability, protection and integrity of databases.

Components: Lecture

Requirement Group: Prerequisite: COMP 350

COMP 422(3) Course ID:000124 01-JAN-1901

Design of Compilers

Organization of compiler including lexical and syntax analysis, symbol tables, object code generation, code optimization techniques, and overall design. Compilation techniques and run-time structures.

Components: Lecture

Requirement Group: Prerequisites: COMP 444

COMP 424(3) Course ID:000125 01-JAN-1901

Computer System Security

Security techniques in operating systems, data bases, and computer networks. Analysis of formal security models. Introduction to cryptography, public key security schemas.

Components: Lecture

Requirement Group: Prerequisite: COMP 350

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Channel Islands - Academic Programs - Subject: Computer Science

COMP 429(3) Course ID:000126 01-JAN-1901

Computer Networks

Basic software design and analysis considerations in networking computers into coherent, cooperating systems capable of processing computational tasks in a distributed manner. Network topology, routing procedures, message multiplexing and process scheduling techniques.

Components: Lecture

Requirement Group: Prerequisites: COMP 350; COMP 362 & MATH 344

COMP 431(4) Course ID:000127 01-JAN-1901

Bioinformatics

Basic computational models used in molecular biology and chemistry will be introduced. Topics include algorithms for string alignments, dynamic programming, structural superposition algorithms, computing with differential information, 3D motifs, Hidden Markov Models, phylogenetic trees, statistical/information techniques for pattern recognition, genetic algorithms. A lab fee is required.

Components: Laboratory
Same As Offering: BIOL 431

Attributes: Mathematics - Mathematics and Applications

Requirement Group: COMP 150, MATH 151, Statistics

COMP 444(3) Course ID:000128 01-JAN-1901

Automata, Languages, and Computation

Study of the relation of languages (i.e. sets of strings) and machines for processing these languages, with emphasis on classes of languages and corresponding classes of machines. Phrase structure languages and grammar. Types of grammars and classes of languages. Regular languages and finite state automata. Context-free languages and pushdown automata. Unrestricted languages and Turing Machines. Computability models of Turing, Church, Markov, and McCarthy. Applications to programming languages, compiler design, and program design and testing.

Components: Lecture

Attributes: Languages and Cultures
Requirement Group: Prerequisites: MATH 300

COMP 447(3) Course ID:000129 01-JAN-1901

Societal Issues in Computing

A survey course on the role of the digital computer in modern society. The dangers of the misuse of computers (as in the invasion of privacy), as well as the proper and intelligent use of the machines, are discussed.

Components: Lecture

Attributes: Social Perspectives

Requirement Group: Prerequisites: COMP 350 and COMP 362

COMP 449(3) Course ID:000130 01-JAN-1901

Human - Computer Interaction

The information exchange between humans and computer systems will be examined. Aspects of input/output devices, software engineering, and human factors will be discussed with respect to human-computer interactions. Topics include: text and graphic display; user modeling; program design, debugging, complexity and comprehension; and current research studies and methodologies.

Components: Lecture

Attributes: Human Psychological & Physiological Perspectives

Requirement Group: Prerequisite: COMP 350

COMP 462(3) Course ID:000131 01-JAN-1901

Advanced Object Oriented Programming

Principles of object-oriented design and programming based on languages such as JAVA, C++ and Smalltalk will be presented. Understanding of the role of objects, methods, message passing, encapsulation, and inheritance for effective programming will be stressed. Language structure versus particular engineering objectives will be analyzed. Design Patterns techniques will be a unifying theme.

Components: Lecture

Requirement Group: Prerequisite: COMP 350

COMP 464(3) Course ID:000132 01-JAN-1901

Computer Graphics Sytem and Design I

Fundamental concepts of computer graphics. Graphics devices; graphics languages; interactive systems. Applications to art, science, engineering and business. Trade-offs between hardware devices and software support.

Components: Lecture

Requirement Group: Prerequisites: COMP 350 and MATH 240

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Instructor Consent Required

Channel Islands - Academic Programs - Subject: Computer Science

Course ID:000133 01-JAN-1901

Computer Graphics Systems and Design II

Advanced concepts of computer graphics. Topics include computer graphics software and hardware, mathematical basis of geometric modeling, data base management in manufacturing environments, imagining and

visualization.

Components: Lecture

Requirement Group: Prerequisites: COMP 464

COMP 469(3) Course ID:000134 01-JAN-1901

Artificial Intelligence Neural Nets

An exploration of the use of computers to perform computations normally associated with intelligence, pattern formation and recognition using various backpro iterations. Stacks, decision trees and other modern mining tools and computational models for knowledge representation will be covered. Other topics may include natural language and imagining.

Components: Lecture

Requirement Group: Prerequisites: MATH 342

COMP 490(3) Course ID:000135 01-JAN-1901

Topics in Computer Science

Current issues in computer science.

Components: Lecture

Requirement Group: Prerequisites: Junior Standing

COMP 492(3) Course ID:000136 01-TAN-1901

Internship

Supervised work and study in industrial setting involving development of degree related skills. All students are required to present their projects at the Senior Seminar.

Lecture Components:

Requirement Group: Prerequisites: Junior Standing

COMP 494(3) Course ID:000138 01-JAN-1901 Instructor Consent Required

Independent Research

Supervised project involving theoretical research in the field of computer science or its applications. All students are required to present their projects at the Senior Seminar.

Components: Independent Study

Requirement Group: Prerequisites: Senior standing

COMP 497(3) Course ID:000139 01-JAN-1901 Instructor Consent Required Directed Study

Supervised project involving library research. All students are required to present their projects at the Senior Seminar.

Independent Study

Requirement Group: Prerequisites: Senior standing

COMP 499(1) Course ID:000145 01-JAN-1901

Senior Colloquium

Oral presentation of current advancements in the field, reports on students' projects, and invited lectures.

Lecture Components:

Requirement Group: Prerequisites: Senior standing

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Channel Islands - Academic Programs - Subject: Economics

ECON 110(3) Course ID:000147 01-JAN-1901

Principles of Microeconomics

The application of economic reasoning to the decisions of consumers and producers. Topics include opportunity cost, resource allocation, the price system, the organization of industry, market failures, distribution of income, public sector economics.

Components: Lecture

Social Perspectives Attributes:

ECON 111(3) Course ID:000149 01-JAN-1901

Principles of Macroeconomics

Study of the workings of the economy. Topics include national income accounting, business cycles, employment and unemployment, inflation, economic growth, financial institutions, fiscal and monetary policy,

Components: Lecture

Attributes: Social Perspectives

ECON 300(3) Course ID:000151 01-TAN-1901

Fundamentals of Economics

international trade.

Basic economic training for citizens who wish to exercise a reasoned judgment about economic issues in public affairs.

Components: Lecture

Attributes: Social Perspectives

ECON 310(3) Course ID:000155 01-TAN-1901

Intermediate Microeconomics

Economic analysis of the decisions of consumers and producers. Emphasis on the theory of consumer behavior, the theory of the firm, price and output determination in various market structures, factor markets and externalities.

Components: Lecture

Requirement Group: Prerequisites: ECON 110, 111 and either MATH 140 or 150

Course ID:000157 01-JAN-1901 ECON 311(3)

Intermediate Macroeconomics

Determinants of levels of national income, employment, and price levels. Analysis of secular and cyclical changes in economic activity, and the effects of monetary and fiscal policies on these changes.

Lecture

Requirement Group: Prerequisites: ECON 110, 111 and either MATH 140 or 150

ECON 320(3) Course ID:000158 01-JAN-1901

Money and Banking

Nature and functions of money and its relation to prices; the monetary system of the United States; the functions of banks, bank credit, foreign exchange and monetary control. The impact of monetary policy on economic activity.

Components: Lecture

Requirement Group: Prerequisites: ECON 110, 111 and either MATH 140 or 150

ECON 329(3) Course ID:000159 01-JAN-1901

Managerial Economics

Development of the tools of marginal analysis and their application to managerial decisions and planning. Topics include demand analysis, production and cost, pricing and output decisions under different market structures. Product and factor markets will be analyzed.

Components: Lecture

Requirement Group: Prerequisites: ECON 110, 111 and either MATH 140 or 150

ECON 340(3) Course ID:000160 01-JAN-1901

Business and Money in the American Novel

What is money, really? How does it work in our society and literature? These are the starting questions which will form the core of exploration as we read and discuss works of American literature.

Components: Lecture

Same As Offering: BUS 340, ENGL 340

Attributes: Critical Thinking, Literature Courses, Languages and Cultures

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Channel Islands - Academic Programs - Subject: Economics

ECON 341(3) Course ID:000161 01-JAN-1901

Drug Discovery and Development

How are drugs discovered? What determines the price for a drug? What is the difference between a generic and non-generic drug? These questions will be examined with an interdisciplinary approach. Topics to be covered may include the isolation of compounds from natural sources, the screening of compounds for biological activity, structureactivity relationships of drugs, computer-assisted drug design, combinatorial chemistry, bioinformatics, the FDA approval process for new drugs and the economic and business aspects of pharmaceutical development.

Components: Lecture

Same As Offering: CHEM 341, BUS 341

Attributes: Life Science - Biology, Chemistry, Biochemistry, Social Perspectives

Course ID:000104 ECON 343(3) 01-JAN-1901

Capital Theory

Intertemporal choice and decision-making under uncertainty in our personal and financial lives. Topics include multiperiod consumption, multiperiod production, capital budgeting, modern portfolio theory and financial management.

Components: Lecture Same As Offering: FIN 343

Attributes: Social Perspectives

Course ID:000163 ECON 349(3) 01-JAN-1901

History of Business and Economics in North America

Examines the growth and development of economies of North America since colonial times. Addresses social, ethical, economic and management issues during the development of Canada, the United States and Mexico. Analyzes the business principles underlying the growth and development of the economies.

Components: Lecture

Same As Offering: HIST 349, BUS 349 Social Perspectives Attributes:

01-JAN-1901 ECON 362(3) Course ID:000164

Introduction to Environmental Economics

Economic analysis of environmental problems and policy. Market failures due to externalities, public goods, and common property resources will be examined. Private (market) and public (governmental) solutions to environmental problems are examined.

Components: Lecture

Requirement Group: Prerequisites: ECON 110 , ECON 111

Course ID:000165 01-JAN-1901 ECON 462(3)

Environmental Economics

The measurement of market and non-market benefits with application in measuring environmental benefits. Theory of consumer choice: indirect utility functions, expenditure functions, consumer surplus, willingness-to-pay and willingness-to-accept. Theory of measurement: hedonic models, recreation demand, contingent valuation, economy-ecosystem interactions, valuing human morbidity and mortality.

Components: Lecture

ECON 463(3) Course ID:000166 01-JAN-1901

Energy Economics

Application of economic analysis to energy problems and policies. Representative topics include macroeconomic effects of energy price shocks, international financial fragility, OPEC pricing strategies, determinants of demand and supply, industrial organization and finance, investor and publicly owned utilities, domestic and international policies.

Lecture Components:

Requirement Group: Prerequisites: ECON 310 or ECON 329

Course ID:000167 01-JAN-1901

ECON 464(3)

Natural Resource Economics

Microeconomic and capital theory applied to problems of conserving and managing natural resources. Analysis of public policies affecting renewable and nonrenewable resources including price controls, taxation and leasing. Representative topics include: forestry, energy, water, and mineral economics.

Components: Lecture

Requirement Group: Prerequisites: ECON 310 or ECON 329

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Channel Islands - Academic Programs - Subject: Economics

Course ID:000168 01-JAN-1901 ECON 486(3)

Introduction to Econometrics

Development and application of econometric tools.

Lecture Components:

Requirement Group: Prerequisites: ECON 310 or 329, 311, MATH 340

Course ID:000174 01-JAN-1901

Quantitative Methods in Environmental Economics

Economic and social impacts of environmental regulations. Applications of input-output analysis and computable general equilibrium models to measure economic consequences to employment and the economy from environmental regulations.

Lecture, Laboratory Components:

ECON 490(3) Course ID:000176 01-JAN-1901

Seminar in Economics

This seminar explores a different topic each term. This seminar explores a different topic each term.

Students may enroll up to four times in different seminars. Components: Seminar

ECON 492(3) Course ID:000178 01-JAN-1901

Service Learning/Internship

Enrollment in this course is with permission of faculty member in charge. Individual internship through

service learning.

Components: Lecture

ECON 494(3) Course ID:000183 01-JAN-1901

Independent Study

Individual contracted study on topics selected by the student for further study. Enrollment in this course is with permission of faculty member in charge.

Independent Study Components:

ECON 497(3) Course ID:000188 01-JAN-1901

Directed Study

Reading and library research under the direction of a faculty member. Enrollment in this course is with

permission of faculty member in charge.

Independent Study Components:

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Channel Islands - Academic Programs - Subject: Ed Multiple Subjects Program

Course ID:000198 01-JAN-1901

Literacy I/Multicultural-Multilingual

Includes developmental theory and practice of the reading and writing process across the grade levels. Includes study skills. Foundations of reading and writing theory and practice for students who speak English as a first or second language. Teaching reading and writing to native English speakers and English Language Learners in English Only, Multilingual and Bilingual contexts. Needs of English Language Learners and exceptional children, technology for teaching and learning is integrated.

Lecture

Requirement Group: Prerequisite: Students must be officially admitted to the Multiple Subject Credential Program

01-JAN-1901

EDMS 523(4) Course ID:000200

Literacy II/Multicultural-Multilingual

Includes differentiated instruction and scaffolding for English language learners, special education (including gifted) and English only students. Focus on reading and writing skills across the content areas and Literature based instruction for native English speakers and English Language Learners in English Only, Multilingual and Bilingual contexts. Needs of English Language Learners and exceptional children, technology for teaching and learning is integrated.

Components: Lecture

Requirement Group: Prerequisite: Students must be officially admitted to the Multiple Subject Credential Program

Course ID:000201 01-JAN-1901 EDMS 526(3)

Modern Methods in Mathematics Teaching

Students learn to apply techniques and materials to teaching mathematics in elementary and middle schools. Special attention will be given to mathematical reasoning, problem solving skills, multiple representations and approaches including verbal, symbolic, and graphic. Modern methods, including mathematical modeling, use of new technology and modern educational software will be stressed. Needs of English Language Learners and exceptional children, technology for teaching and learning is integrated.

Components: Lecture

Requirement Group: Prerequisite: Students must be officially admitted to the Multiple Subject Credential Program

01-JAN-1901 EDMS 527(4) Course ID:000202

History & Social Studies and Integrated Arts

Focuses on curriculum for History, Social Sciences and Arts as delineated by the California Content Area Standards and the Curriculum Frameworks. Includes curriculum development, methods, techniques, planning and assessment in history, social studies and integrated arts. Needs of English Language Learners and exceptional children, technology for teaching and learning is integrated.

Lecture

Requirement Group: Prerequisite: Students must be officially admitted to the Multiple Subject Credential Program

EDMS 529(4) Course ID:000203 01-JAN-1901

Science, Health and Physical Education

Through this course students learn and apply recommended methods for teaching physical, life and earth science, health and physical education to students (K-8) based on research and theory. Students reflect upon their personal development and abilities to integrate theory and practice in science, health and physical education with other subject areas. Needs of English Language Learners and exceptional children, technology for teaching and learning is integrated.

Components: Lecture

Requirement Group: Prerequisite: Students must be officially admitted to the Multiple Subject Credential Program

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Channel Islands - Academic Programs - Subject: Education

EDUC 101(3) Course ID:000192 01-JAN-1901

Introduction to Education

The elementary teaching profession; personal goals, teaching-learning environment, and career opportunities. Experiences that assist students gain accurate knowledge schooling in the 21st century.

Components: Lecture, Field Studies

EDUC 320(3) Course ID:000193 01-JAN-1901

Education in Modern Society

Survey of educational institutions and practices used in different sectors of society. Includes historical and philosophical foundations of American education.

Components: Lecture

EDUC 510(3) Course ID:000194 01-JAN-1901 Learning Theory & Development Applied in Multicultural Education Contexts

Introduction to psychology of learning and instruction. Major concepts, principles, theories and research related to child and adolescent development; human learning; the cognitive, linguistic, social, emotional and physical development. Candidates begin to use this knowledge to create learning opportunities that support student development, motivation and learning in a social, cultural, and historical context. Includes learning theories and their application to educational practice in multicultural and multilingual classroom settings.

Components: Lecture, Field Studies

EDUC 512(3) Course ID:000195 01-JAN-1901

Equity, Diversity & Foundations of Schooling

Principles of effectively teaching students from diverse language, historical, and cultural backgrounds. Includes, skills and abilities and community values. Focus on the major cultural and ethnic groups. Attention to ways of recognizing and minimizing bias in the classroom and ways to create equitable classroom community that emphasize the physical, social, emotional and intellectual safety of all students. Includes study of gender bias, diverse students, families, schools and communities and the candidate's self-examination of his/her stated and implied beliefs, attitudes and expectations related to these areas of diversity.

Components: Lecture

EDUC 520(3) Course ID:000196 01-JAN-1901

Observing and Guiding Behavior in Multilingual/Multicultural & Inclusive Classrooms

Through this course students observe children; s behavior in multilingual/ multicultural and inclusive classrooms, learn and apply assessment principles and tools; learn how to guide children; social behavior; and communicate with families. Students learn how to organize and write plans for instruction.

Components: Lecture, Field Studies

Requirement Group: Prerequisite: Students must be officially admitted to the Multiple Subject Credential Program

EDUC 560(1 - 9) Course ID:000197 01-JAN-1901

Fieldwork/Student Teaching

Observation and teaching in selected schools under the supervision of classroom teacher and University supervisor, with a student teaching seminar.

Components: Field Studies

Requirement Group: Prerequisite: Students must be officially admitted to the Multiple Subject Credential Program

EDUC 561(1) Course ID:000199 01-JAN-1901

Student Teaching Seminar

Weekly Meetings to discuss observations and teaching practice during the student teaching experience.

Components: Seminar

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Channel Islands - Academic Programs - Subject: English

ENGL 100(3) Course ID:000204 01-JAN-1901

Composition and Rhetoric

Instruction and practice in writing university-level expository prose. The subject matter of the course will be thematic and variable. The focus of the course is development of proficiency in conceptualizing, analyzing and writing academic papers.

Components: Lecture

ENGL 120(3) Course ID:000205 01-JAN-1901

American Literature I

Study of major works of American literature from colonial times through 1850, with special attention to literary movements. Major writers will be addressed, as well as lesser known writers from various cultural and regional backgrounds.

Components: Lecture

Attributes: Literature Courses
Requirement Group: Prerequisites: ENGL 100

ENGL 150(3) Course ID:000206 01-JAN-1901

British and European Literature I

Survey of major authors in English and European literature from Beowulf to approximately 1650, with special emphasis on the intellectual backgrounds of the Medieval and Renaissance periods.

Components: Lecture

Attributes: Literature Courses
Requirement Group: Prerequisites: ENGL 100

ENGL 220(3) Course ID:000207 01-JAN-1901

American Literature II

Study of major works of American literature from 1850 to the present, with special attention to literary movements. Major writers will be addressed, as well as lesser known writers from various cultural and regional backgrounds.

Components: Lecture

Attributes: Literature Courses Requirement Group: ENGL 100 & ENGL 120

ENGL 250(3) Course ID:000208 01-JAN-1901

British and European Literature II

Study of major works of English and European literature from approximately 1650 to the present, with special

attention to various literary movements.

Components: Lecture
Attributes: Literature Courses

Requirement Group: ENGL 100 & ENGL 150

ENGL 310(3) Course ID:000209 01-JAN-1901

Research Methods

Comprehensive investigation of research modalities, including the various forms of electronic research.

Writing intensive.

Components: Lecture

Requirement Group: Prerequisites: ENGL 100

ENGL 312(3) Course ID:000211 01-JAN-1901

Introduction to Children's Literature

An inquiry into children's and adolescent literature. Students analyze narrative and expository texts. Focus will be on critical reading for K-12 students and analysis of perspective in fiction and non-fiction. Works studied will be representative of several genres, cultures, and periods of literature. Students evaluate the use of elements of persuasive argument in print, speech, videos, and in other media.

Components: Lecture

Requirement Group: Prerequisites: ENGL 100

ENGL 315(3) Course ID:000215 01-JAN-1901

Introduction to Language Structure and Linguistics

An examination of the basic components of human language, including phonology, morphology, syntax and semantics, and the differences/similarities between languages. Students will identify examples of speech parts, their function, morphology, and syntax.

Components: Lecture

Requirement Group: Prerequisites: ENGL 100

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<u>Channel Islands - Academic Programs - Subject: English</u>

ENGL 326(3) Course ID:000224 01-JAN-1901

Major British and European Authors

Concentrated study of selected British and/or European authors. Authors selected change from term to term; therefore, students may take the course for credit more than once.

Components: Lecture

Requirement Group: Prerequisites: ENGL 100, ENGL 250

ENGL 327(3) Course ID:000229 01-JAN-1901

Major American Authors

Concentrated study of selected American authors. Authors selected change from term to term; therefore,

students may take the course for credit more than once.

Components: Lecture

Requirement Group: Prerequisites: ENGL 100, ENGL 220

ENGL 328(3) Course ID:000231 01-JAN-1901

Mythology

Study of mythology and the influence it has had on literature, art, music, and the development of cultures. Course topics may include Classical Mythology, Eastern Mythology, Mythology of the Americas, Egyptian

Mythology, and others.

Components: Lecture

Requirement Group: Prerequisites: ENGL 100

ENGL 330(3) Course ID:000233 01-JAN-1901

Writing in the Disciplines

Individual and collaborative writing in a variety of styles and forms. Students will learn writing and research techniques of various types, with special emphasis on writing for their chosen majors. Oral

presentations form a portion of the course.

Components: Lecture

Requirement Group: Prerequisites: ENGL 100

ENGL 333(3) Course ID:000235 01-JAN-1901

Multicultural Drama in Performance/Production

America is a country of many cultures, and each of these has brought legacies of its roots to the American stage. In this course we will read plays written by Native Americans, Hispanic Americans, Asian Americans, African Americans and others. We will also stage mini productions of one or more of those plays.

Components: Lecture Same As Offering: TH 333

Attributes: Literature Courses, Languages and Cultures

Requirement Group: Prerequisites: ENGL 100, ENGL 220

ENGL 334(3) Course ID:000236 01-JAN-1901

Narratives of Southern California

Ours is a region made up of many cultures which produce the one we call Southern California. In this class we will take a historical approach to study of the narratives oral, written and filmed¿of Southern California. Course work may also include obtaining oral histories and compiling them.

Components: Lecture
Same As Offering: HIST 334

Attributes: Languages and Cultures

Requirement Group: Prerequisites: ENGL 100, ENGL 220

ENGL 335(3) Course ID:000232 01-JAN-1901

American Ethnic Images in Novels, Film and Art

An examination of the portrayal of ethnic groups from an interdisciplinary perspective that includes, but is not limited to, the literary, historical, and artistic modes of analysis. This course highlights the ways in which artistic works have shaped the intellectual landscape of the United States as they relate to ethnic peoples.

Components: Lecture

Same As Offering: ART 335, HIST 335

Attributes: Languages and Cultures, Social Perspectives

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Channel Islands - Academic Programs - Subject: English

ENGL 337(3) Course ID:000238 01-JAN-1901

Literature of the Environment

Literature of the Environment is structured to involve the student in many forms of dialogue on issues pertinent to humanity's relationship with Earth. By reading works by writers from diverse fields and by writing in response, the student will gain a better understanding of our planet, its needs, and a better control of writing in response to learning.

Components: Lecture

Attributes: Literature Courses
Requirement Group: Prerequisites: ENGL 100

ENGL 339(3) Course ID:000239 01-JAN-1901

Psychopathology in Literature

This course is co-developed and co-taught by faculty from Psychology and English. Human psychology and its manifestations in literature are the topics of the course, and students will use skills from both disciplines to address the ideas and issues presented by the literature.

Components: Lecture Same As Offering: PSY 339

Attributes: Literature Courses, Human Psychological & Physiological Perspectives

Requirement Group: Prerequisites: ENGL 100

ENGL 340(3) Course ID:000160 01-JAN-1901

Business and Money in the American Novel

What is money, really? How does it work in our society and literature? These are the starting questions which will form the core of exploration as we read and discuss works of American literature.

Components: Lecture

Same As Offering: ECON 340, BUS 340

Attributes: Critical Thinking, Literature Courses, Languages and Cultures

ENGL 349(3) Course ID:000241 01-JAN-1901

Special Interdisciplinary Topics

These courses will vary by topic, but they will all be interdisciplinary by nature, involving information and ways of knowing from at least two disciplines.

Components: Lecture

Requirement Group: Prerequisites: ENGL 100

ENGL 400(3) Course ID:000242 01-JAN-1901

Contemporary Literature

Survey of world trends in literature, possibly including fiction, non-fiction, poetry and/or drama. Specific topics vary from term to term; the class is therefore repeatable for credit.

Components: Lecture

Requirement Group: Prerequisites: ENGL 100

ENGL 410(3) Course ID:000243 01-JAN-1901

Shakespeare's Plays

Study of the many aspects of Shakespeare's plays as literature, language, context, form and style, as well as the ways in which these elements work as parts of a whole, which includes spoken speech and other sounds as well as physical form and movement. Choices are: Shakespeare's Early Plays (pre-1600) and Shakespeare's Later Plays (post-1600).

Components: Lecture Same As Offering: TH 410

Requirement Group: Prerequisites: ENGL 100

ENGL 420(3) Course ID:000461 01-JAN-1901

Literary Theory

Need Description- There is an existing Literary Theory 430

Components: Lecture

ENGL 430(3) Course ID:000244 01-JAN-1901

Literary Theory

Survey of literary theory and critical study which investigates various approaches, perspectives, and modes of inquiry. Literary Criticism extends beyond literature to intersect with anthropology, philosophy, psychology, linguistics, political science, and other disciplines, and critical analysis by literary scholars encompass all forms of cultural production, literary and non-literary.

Components: Lecture

Requirement Group: Prerequisites: ENGL 100

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Channel Islands - Academic Programs - Subject: English

ENGL 431(3) Course ID:000245 01-JAN-1901

European Renaissance Literature and Art

The Renaissance of the 15th and 16th centuries in Europe and England provided the world with a new way of looking at humankind and our surroundings. By reading the literature of this period and studying the art produced during that time, we will gain an understanding of this ""rebirth" of the human spirit and a better understanding of the legacies of the Renaissance artists and writers.

Components: Lecture Same As Offering: ART 431

Attributes: Fine Art Courses, Literature Courses

Requirement Group: Prerequisites: ENGL 100

ENGL 432(3) Course ID:000246 01-JAN-1901

Arts of the Harlem Renaissance

The Harlem Renaissance was one of the most exciting epochs in American history. The art, literature and music produced in Harlem during the `20s and `30s has had a significant impact on American and world cultures. In this class, we will study these art forms and their historical genesis and legacy.

Components: Lecture

Same As Offering: ART 432, MUS 432

Attributes: Fine Art Courses, Literature Courses

Requirement Group: Prerequisites: ENGL 100

ENGL 449(3) Course ID:000247 01-JAN-1901

Perspectives on Multicultural Literature

Each of the cultures present in America today has its own set of qualities which make it different from that of other cultures. In this class, we will study some of those, but the focus of the class will be on issues and/or ideas which affect each of these literatures and discover ways in which they inform each other.

Components: Lecture

Attributes: Literature Courses, Languages and Cultures Requirement Group: Prerequisites: ENGL 220, ENGL 310 suggested

ENGL 450(3) Course ID:000248 01-JAN-1901

Native American Literature

In this course students study the novels and poetry written by Native American authors. In order to understand the development of the literature, we will also read essays relevant to the events, issues and concerns attending the historical interactions between Native Americans and Euro-Americans in North America.

Components: Lecture

Requirement Group: Prerequisites: ENGL 449

ENGL 451(3) Course ID:000249 01-JAN-1901

African/African American Literature

In this course students study the novels and poetry written by African American authors. In order to understand the development of the literature, we will also read essays relevant to the events, issues and concerns attending the historical interactions between African Americans and other peoples in North America. Authors writing in African countries may also be included in order to gain a more global perspective on the literature.

Components: Lecture

Requirement Group: Prerequisites: ENGL 449

ENGL 452(3) Course ID:000253 01-JAN-1901

Asian/Asian American Literature

In this course students study the novels and poetry written by Asian American authors. In order to understand the development of the literature, we will also read essays relevant to the events, issues and concerns attending the historical interactions between Asian Americans and other peoples in North America. Authors writing in Asian countries may also be included in order to gain a more global perspective on the literature.

Components: Lecture

Requirement Group: Prerequisites: ENGL 449

ENGL 453(3) Course ID:000256 01-JAN-1901

Hispanic/Hispanic American Literature

In this course students study the novels and poetry written by Hispanic American authors. In order to understand the development of the literature, we will also read essays relevant to the events, issues and concerns attending the historical interactions between Hispanic Americans and other peoples in North America. Authors writing in Spain, Mexico, Central America or South American countries may also be included in order to gain a more global perspective on the literature.

Components: Lecture

Requirement Group: Prerequisites: ENGL 449

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Channel Islands - Academic Programs - Subject: English

NGL 454(3) Course ID:000259 01-JAN-1901 Instructor Consent Required

Multicultural Literature Project/Seminar

As the culmination of the Multicultural Literature Emphasis, the purpose of this independent study course is to produce a significant work in the genre of the student¿s choice, chosen in consultation with his or her instructor.

Components: Independent Study

Requirement Group: Prerequisites: ENGL 449, 450, 451, 452, 453

ENGL 460(3) Course ID:000261 01-JAN-1901

Perspectives on Creative Writing

This course will be writing intensive, but the focus of the course will be reading and discussing what others have written about the processes involved in the creative writing endeavor. Guest lectures by published writers, publishers and other experts may be part of the course.

Components: Lecture

Requirement Group: Prerequisites: ENGL 330

ENGL 461(3) Course ID:000263 01-JAN-1901

Fiction Writing

The writing of fiction is the focus of this class. The seminar format allows students the opportunity to talk about their writing and to receive critiques from their peers as well as the instructor of several genres, cultures, and periods of literature.

Components: Lecture

Requirement Group: Prerequisites: ENGL 460

ENGL 462(3) Course ID:000266 01-JAN-1901

Poetry Writing

The writing of poetry is the focus of this class. The seminar format allows students the opportunity to talk about their poetry and to receive critiques from their peers as well as the instructor.

Components: Lecture

Requirement Group: Prerequisites: ENGL 460

ENGL 463(3) Course ID:000268 01-JAN-1901

Writing for the Stage and Screen

The writing of stage plays and/or screen plays is the focus of this class. The seminar format allows students the opportunity to talk about their writing and to receive critiques from their peers as well as the

Components: Lecture

Requirement Group: Prerequisites: ENGL 460

ENGL 464(3) Course ID:000274 01-JAN-1901

Creative Non-Fiction

ENGL 465(3)

The writing of creative non-fiction is the focus of this class. The seminar format allows students the opportunity to talk about their writing and to receive critiques from their peers as well as the instructor.

Components: Lecture

Requirement Group: Prerequisites: ENGL 460

01-JAN-1901

Instructor Consent Required

Creative Writing Project

As the culmination of the Creative Writing Emphasis, the purpose of this independent study course is to produce a significant work in the genre of the student's choice, chosen in consultation with his or her instructor.

Components: Independent Study

Requirement Group: Prerequisites: ENGL 460, 461, 462, 463, 464

Course ID:000276

ENGL 475(3) Course ID:000278 01-JAN-1901 Instructor Consent Required

Language in Social Context

Focus is on the nature of literacy, with emphasis on literacy development for English Only (EO) and English Language Learners (ELLs), investigation and knowledge of the development and acquisition of English literacy, and understanding the role of concepts and contexts in word meanings, vocabulary development, and multiple meanings. Also stressed will be differences between English and other languages that impact the acquisition of English literacy by ELLs, the role of primary language literacy in the development of English language among ELLs, and the impact of disabilities on oral and written English language development.

Components: Lecture

Requirement Group: Prerequisites: ENGL 100

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Channel Islands - Academic Programs - Subject: English

NGL 476(3) Course ID:000282 01-JAN-1901 Instructor Consent Required

Language Development and Assessment

Introduction to language development issues for first and second language speakers. Examination of the linguistic theories of language acquisition including the study of child language development and situated in a cognitive, social, and cultural context. Study of second language acquisition in children, adolescents and adults. Includes the nature of assessment for language development, including speaking, reading, and writing.

Components: Lecture

Requirement Group: Prerequisites: ENGL 100

ENGL 477(3) Course ID:000292 01-JAN-1901

Literature for English Secondary Education

An inquiry into adolescent literature. A survey of adolescent literature in which students analyze narrative and expository texts. Questions raised may include: What purpose does literature serve in the cultural milieu of a community? What cultural patterns, symbols, mythologies and traditions are included? Focus will be on critical reading for single subject matter preparation. Specific works studied will be representative of several genres, cultures, and periods of literature.

Components: Lecture

ENGL 478(3) Course ID:000294 01-JAN-1901

Writing for English Secondary Education

Introduction to current theory and practice of teaching writing in the secondary schools, in a writing context and across the curricula. Special attention to advanced critical reading, thinking, and writing skills.

Components: Lecture

ENGL 482(3) Course ID:000296 01-JAN-1901

Technical Writing

This course is an overview of the field of technical writing. Research, interviewing, and the various forms of technical writing are addressed. Students will produce work in a variety of forms of technical writing.

Components: Lecture

Requirement Group: Prerequisites: ENGL 330

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ENGL 483(3) Course ID:000295 01-JAN-1901

Technical Visual Communication

The focus of this course is two-fold. First, the student will research and write a presentation on a topic of his or her choice, suitable for a specific application (conference, meeting, etc.) and receive critiques from his or her peers and the professor. Second, the student will use that paper to form the basis of a visual presentation using up-to-date technology of various forms.

Components: Lecture

ENGL 484(3) Course ID:000297 01-JAN-1901

Technical Writing for the Sciences

Writing for the Sciences requires a specialized understanding of the process of writing as well as the content of the final essay or article. Students will learn to do research in specialized fields and to write for a variety of scientific journals and other publications.

Components: Lecture

Requirement Group: Prerequisites: ENGL 330

ENGL 485(3) Course ID:000298 01-JAN-1901

Technical Writing Project/Seminar

As the culmination of the Technical Writing certificate program, this course may be an internship, independent study, seminar or a project course. Projects will be devised in consultation with an advisor.

Components: Seminar

Requirement Group: Prerequisites: ENGL 310, 330, 482,483 and 484 and a passing portfolio of work from the prerequisite co

ENGL 494(3) Course ID:000299 01-JAN-1901 Instructor Consent Required

Independent Study/Senior Research

Students may do an independent study to further coursework begun in other courses, obtain an internship which utilizes knowledge gained thus far, or do research in preparation for the senior project.

Components: Independent Study

Requirement Group: Prerequisites: Senior standing

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Channel Islands - Academic Programs - Subject: English

ENGL 499(3) Course ID:000300 01-JAN-1901 Instructor Consent Required

Capstone Project/Senior Seminar

This course is an interdisciplinary experience in which students work in teams, contributing their expertise to a community-based group project.

Components: Lecture

Requirement Group: Prerequisites: Senior standing

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Channel Islands - Academic Programs - Subject: Environment Sci & Resource Mgt

SRM 120(3) Course ID:000137 01-JAN-1901

Co-evolution of Human and Natural Systems

Are natural systems real, or have humans so altered the Earth to meet our needs that no purely natural systems survive? This course examines the human impact on the environment from the discovery of fire to the present, using case studies from throughout the world, including fire farming in Australia, deforestation in Africa, Asia, and America; and human roles in faunal and floral extinctions through time.

Components: Lecture
Same As Offering: ANTH 120

Attributes: Social Perspectives

ESRM 328(3) Course ID:000302 01-JAN-1901

Introduction to Geographical Information Systems

Introduction to fundamental concepts and techniques of geographic information systems, including problems of acquiring and processing machine-readable map data. A lab fee is required.

Components: Lecture, Laboratory

ESRM 330(3) Course ID:000303 01-JAN-1901

Environmental Institutions, Law and Regulation

Political institutions, property rights, federal and state roles in decisionmaking, and challenges for environmental policy. Decision-making is examined in the context of the rights and limits of both private parties and the broad public interest. Emphasis is on the use of science in decision-making, choices between regulations and incentives, and the role of bureaucracy in resource policy. Examples of legal principles as applied to environmental regulation by federal and state governments. Case studies from air pollution, water pollution, land development, wetlands and coastal management.

Components: Lecture, Laboratory
Attributes: Social Perspectives

ESRM 332(3) Course ID:000304 01-JAN-1901

Population and Resource Constraints

This human ecology course places humans into the environment in historical and global contexts. Discusses systems theory as it applies to human adaptation to the environment. Studies the relations between political power, ideology, and resources, integrating concepts from ecology with those from social sciences. Theories and forecasts of human population growth and migration among regions and cultures. Social and environmental impacts of population and age distribution. Natural resource constraints on growth. Topics from land development, resource planning, environmental quality, politics, economic growth, conflicts and wars.

Components: Lecture Same As Offering: ANTH 332

Attributes: Social Perspectives

ESRM 410(3) Course ID:000305 01-JAN-1901

Environmental Impact Analysis

Required components of environmental impact reports and assessments, and the processes involved in preparation and approval. Problems related to environmental impacts, mitigation, alternatives, benefits, costs, and consequences.

Components: Lecture

Requirement Group: Prerequisites: BIOL 330, ECON 362, ESRM 328 and 330

ESRM 481(3) Course ID:000307 01-JAN-1901

Topics in Environmental Pollution

Analysis of pollution transformation and transport. Impacts on human and natural systems. Examples from tropospheric air pollution, water pollution, soil pollution, climate change. May be repeated for credit, with permission.

Components: Lecture

Requirement Group: Prerequisites: BIOL 330 and 432, CHEM 250 and 251

ESRM 482(3) Course ID:000306 01-JAN-1901

Topics in Environmental Planning and Resource Management

Topics from land use planning and urban development, forest management, integrated water resource planning and demand-side management, surface water run-off, air quality management, coastal development and planning, marine protected area planning and management, preservation of cultural and natural heritage, recycling and waste management, and power plant siting.

Components: Lecture

Requirement Group: Prerequisites: BIOL 330, ECON 362, ESRM 330

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Channel Islands - Academic Programs - Subject: Environment Sci & Resource Mgt

ESRM 483(3) Course ID:000308 01-JAN-1901

Topics in Global Resource Management

Topics from land use planning and urban development, forest management, integrated water resource planning and demand-side management, surface water run-off, air quality management, coastal development and planning, marine protected area planning and management, preservation of cultural and natural heritage, recycling and waste management, and power plant siting.

Components: Lecture

Requirement Group: Prerequisites: BIOL 330, ECON 362, ESRM 330

ESRM 490(3) Course ID:000309 01-JAN-1901

Seminar

This seminar explores a different topic each term. Students may enroll up to four times in different

seminars.

Components: Seminar

ESRM 492(3) Course ID:000310 01-JAN-1901

Service Learning/Internship

Enrollment in this course is with permission of the faculty member in charge. Individual internship through

service learning.

Components: Lecture

ESRM 494(3) Course ID:000313 01-JAN-1901

Independent Study

Individual contracted study on topics or research selected by the student for further study. Enrollment in this course is with permission of faculty member in charge.

Components: Independent Study

ESRM 497(3) Course ID:000317 01-JAN-1901

Directed Study ESRM

Reading and library research under the direction of a faculty member. Enrollment in this course is with permission of the faculty member in charge.

Components: Lecture

ESRM 499(3) Course ID:000320 01-JAN-1901

Capstone

This course consists of an interdisciplinary evaluation of the physical, biological, social, economic, and legal dimensions of environmental decision-making. The instructor will select from Southern California ecosystems and decisions with associated environmental impacts for evaluation and analysis. Examples include decisions to reduce, control, or treat surface water run-off, establishing or changing the management of marine protected areas, dredging in harbors, and permits for coastal development. Students will transmit results to appropriate national, state, or local agencies for consideration and deliberation in administrative decisions.

Components: Lecture, Field Studies

Requirement Group: Prerequisites: BIOL 492, 494 or 497

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<u>Channel Islands - Academic Programs - Subject: Finance</u>

FIN 343(3) Course ID:000104 01-JAN-1901

Capital Theory

Intertemporal choice and decision-making under uncertainty in our personal and financial lives. Topics include multiperiod consumption, multiperiod production, capital budgeting, modern portfolio theory and financial management.

Components: Lecture
Same As Offering: ECON 343

Attributes: Social Perspectives

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Channel Islands - Academic Programs - Subject: Geology

01-JAN-1901 GEOL 121(4) Course ID:000283

Physical Geology

This course examines the basic composition of the Earth and the dynamic forces which have altered the Earthâ; s surface through time, including sedimentation, erosion, volcanism, earthquakes, plate tectonics, and mountain-building. Students will gain an appreciation for the immense processes affecting their environment. A lab fee is required.

Components: Lecture, Laboratory

Attributes: Physical Sciences - Physics, Geology, Earth Sci

GEOL 122(3) Course ID:000286 01-JAN-1901

Historical Geology

This course focuses upon the geological history of the Earth and the Solar System from the origin of the cosmos to the explosion of Mt. St. Helens, tracing the evolution of the continents and ocean basins, and the broad development of plants and animals through time. Surveys events in Earth's past of relevance to present environmental issues.

Components: Lecture

Attributes: Physical Sciences - Physics, Geology, Earth Sci

GEOL 300(4) Course ID:000288 01-JAN-1901

Foundations of Earth Science

An analysis of the Earths physical systems and the solar system/ universe. Selected topics include climates of the world, minerals and rocks, flood hazards, aspects of physical oceanography, plate tectonics, natural resources, and the motion of planets and planetary bodies. A lab fee is required.

Lecture, Laboratory Components:

Attributes: Physical Sciences - Physics, Geology, Earth Sci

Requirement Group: Prerequisite: CHEM 170

Course ID:000291 01-JAN-1901 GEOL 321(3)

Environmental Geology

Interrelationships between human and natural geologic hazards: tsunamis, earthquakes, landslides, subsidence, volcanoes. Explores environmental impact of resource extraction and usage. Importance of understanding the geologic processes and landscape in land use planning. Means of using geology to minimize conflicts in resource management and disaster preparation.

Components: Lecture, Laboratory

Lecture

Attributes: Physical Sciences - Physics, Geology, Earth Sci

GEOL 327(3) Course TD:000293 01-TAN-1901

Oceans and the Global Environment

Oceanography is explored to present the student with an understanding of the interrelationship between oceans and global climate. Other topics include marine geology, plate tectonics, evolution of ocean basins, coastal erosion and sea level changes, energy resources.

Components:

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Channel Islands - Academic Programs - Subject: History

HIST 211(3) Course ID:000311 01-JAN-1901

World History: Origins to 1500

This survey examines world civilizations beginning with the Neolithic age. Topics include the development and growth of religions, economics, and other cultural institutions.

Components: Lecture

HIST 212(3) Course ID:000312 01-JAN-1901

World History: Since 1500

This survey examines world civilizations from both regional and global perspectives. The intellectual, political, and cultural development of nations will be among the major themes of the course.

Components: Lecture

HIST 270(3) Course ID:000314 01-JAN-1901

The United States to 1877

Survey of the political, social, economic as well as cultural institutions of the United States from the pre-colonial era to reconstruction. Issues of multiculturalism, race, sexuality, and gender frame many of the problems examined in the course.

Components: Lecture

HIST 271(3) Course ID:000315 01-JAN-1901

The United States since 1865

Survey of the political, social, economic as well as cultural institutions of the United States from the gilded age to the present. Issues of multiculturalism, race, sexuality, and gender frame many of the problems examined in the course.

Components: Lecture

HIST 280(3) Course ID:000463 01-JAN-1901

Historian's Craft Need Description

Components: Lecture

HIST 331(3) Course ID:000316 01-JAN-1901

History of Mathematics

Study of breakthrough mathematical ideas and their creators, including historical and scientific context. Important concepts of current mathematics are studied: inception, development, difficulties, significance and various viewpoints will be presented. Lecture-discussion. At least one significant writing assignment is required.

Components: Lecture
Same As Offering: MATH 331

Attributes: Mathematics - Mathematics and Applications, Social Perspectives

HIST 333(3) Course ID:000228 01-JAN-1901

History of Southern California Chicana/O Art

A survey of the Southern California Chicano/a culture exploring the genesis, vitality and diversity represented in the painting, sculpture and artistic traditions of Mexican American artists. Historical movements, politics, cultural trends and Mexican folklore underlying the development of this dynamic style of art will be investigated within a variety of contexts.

Components: Lecture Same As Offering: ART 333

Attributes: Fine Art Courses, Languages and Cultures

HIST 334(3) Course ID:000236 01-JAN-1901

Narratives of Southern California

Ours is a region made up of many cultures which produce the one we call Southern California. In this class we will take a historical approach to study of the narratives oral, written and filmedâ¿of Southern California. Course work may also include obtaining oral histories and compiling them.

Components: Lecture
Same As Offering: ENGL 334

Attributes: Languages and Cultures

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<u>Channel Islands - Academic Programs - Subject: History</u>

HIST 335(3) Course ID:000232 01-JAN-1901

American Ethnic Images in Novels, Film and Art

An examination of the portrayal of ethnic groups from an interdisciplinary perspective that includes, but is not limited to, the literary, historical, and artistic modes of analysis. This course highlights the ways in which artistic works have shaped the intellectual landscape of the United States as they relate to ethnic peoples.

Components: Lecture

Same As Offering: ART 335, ENGL 335

Attributes: Languages and Cultures, Social Perspectives

HIST 349(3) Course ID:000163 01-JAN-1901

History of Business and Economics in North America

Examines the growth and development of economies of North America since colonial times. Addresses social, ethical, economic and management issues during the development of Canada, the United States and Mexico. Analyzes the business principles underlying the growth and development of the economies.

Components: Lecture

Same As Offering: ECON 349, BUS 349
Attributes: Social Perspectives

HIST 350(3) Course ID:000318 01-JAN-1901

Chicano History and Culture

An examination of the settlement and culture of Mexicanos in the United States to the present. Particular attention is given to the relationship of Mexicanos to the political and economic institutions of the United States.

Components: Lecture

HIST 365(3) Course ID:000319 01-JAN-1901

Themes in World Civilization Before 1500

Compares and contrasts the cultural, economic, political, and social development of World Civilizations

before 1500.

Components: Lecture

HIST 366(3) Course ID:000321 01-JAN-1901

Themes in World Civilization Since 1500

Compares and contrasts the cultural, economic, political, and social development of World Civilizations since

Components: Lecture

HIST 369(3) Course ID:000322 01-JAN-1901

California History and Culture

Examines the cultural and institutional development of California prior to the 16th century and since.

Components: Lecture

HIST 370(3) Course ID:000323 01-JAN-1901

United States Colonial History

Examines the European colonization of the United States from the 1600s to the French and Indian War. The

transformation of social, political, and cultural institutions of Europe in North America are studied.

Components: Lecture

HIST 371(3) Course ID:000325 01-JAN-1901

The Founding of the United States

Study of the Revolutionary era and its influence on the constitution of the nation politically as well as socially.

Components:

HIST 372(3) Course ID:000327 01-JAN-1901

United States Industrialization and Progressivism

Lecture

This course examines the nation; s geographic and industrial expansion. Social and political problems are concurrently examined to the end of World War I.

concurrently examined to the end of World War I.

Components: Lecture

Components: Lecture

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Channel Islands - Academic Programs - Subject: History

HIST 374(3) Course ID:000328 01-JAN-1901

United States Since 1945

Examines the social and political movements of the nation after World War II. Among the various topics of the course, specific attention is given to how international affairs influenced domestic policy politically as well as socially.

Components: Lecture

HIST 401(3) Course ID:000330 01-JAN-1901

United States Immigration History, 1840-1945

Examines the experiences and contributions of immigrant groups in the United States. Constitutional, political, and social considerations of United States immigrant history frames the content study of this course.

Components: Lecture

HIST 402(3) Course ID:000332 01-JAN-1901

Southern California History and Culture

Examines the cultural, economic, political, and social experience of Mexicanos of the region since the American conquest to the 1990s. Particular attention is given to the interactions of this community with other ethnic and racial groups. Although designed within the disciplinary framework of history, the course utilizes literature, film, and art as mediums of learning about the culture and history of Chicanos. (G.E.)

Components: Lecture

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Channel Islands - Academic Programs - Subject: Health

HLTH 322(2) Course ID:000342 01-JAN-1901

Health For Educators

Survey of school health programs with in-depth study of selected health education curricula and topic areas, including alcohol, tobacco, drugs, communicable diseases and nutrition. Development of strategies and methods for teaching controversial areas.

Components:

Lecture

HLTH 344(3) Course ID:000344 01-JAN-1901

Health Psychology

This course will focus on those areas of psychology which relate to health and medicine including, mind-body interactions, Psychoneuroimmunology, psychology as it relates to nutrition, psychology as it relates to illness, and behavioral medicine.

Components: Lecture Same As Offering: PSY 330

Attributes: Human Psychological & Physiological Perspectives

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Channel Islands - Academic Programs - Subject: Liberal Studies

LS 392(1 - 3) Course ID:000348 01-JAN-1901

International Experience

Provides an opportunity for students to earn credit for travel and study in a country outside the US, where the student is immersed in a foreign language and culture. A student may, in consultation with a faculty advisor, obtain credit for his or her international experience by participating in a university-sponsored trip abroad or a personal trip abroad. In either case, a plan of study must be approved by the faculty advisor prior to the experience.

Components: Lecture

Attributes: Languages and Cultures

LS 492(1 - 3) Course ID:000350 01-JAN-1901

Independent Research

Students design and implement a study project in conjunction with a faculty member.

Components: Independent Study

Requirement Group: Prerequisites: Upper Division Standing in the Liberal Studies Major

LS 494(1 - 3) Course ID:000353 01-JAN-1901

Service Learning/Intership

Students design a community project, individually or in small group, related to areas studied in Liberal Studies major. The project must respond to a community need, involve participants in reciprocal activities, provide opportunities for student's on-going reflection, and evaluate the activity.

Components: Independent Study

Requirement Group: Prerequisites: Upper Division Standing in the Liberal Studies Major

LS 497(1 - 3) Course ID:000355 01-JAN-1901

Directed Studies

Supervised project involving research or creative activity related to Liberal Studies.

Components: Independent Study

Requirement Group: Prerequisites: Upper Division Standing in the Liberal Studies Major

LS 499(1 - 3) Course ID:000356 01-JAN-1901

Capstone Project

Provides an integration of prior subject matter by requiring teams of students to design, enlighten, and/or solve a problem. Also, provides interdisciplinary exposure to complex issues using Web, library and community-based analytical processes.

Components: Independent Study

Requirement Group: Prerequisites: Upper Division Standing in the Liberal Studies Major

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Channel Islands - Academic Programs - Subject: Mathematics

MATH 101(3) Course ID:000392 01-JAN-1901

College Algebra

Basic set theory, number systems and their algebraic properties; systems of equations and inequalities; basic analytic geometry, matrix algebra and elementary functions. Problem solving.

Components: Lecture

MATH 105(4) Course ID:000393 01-JAN-1901

Pre-Calculus

Number systems and their algebraic properties; systems of equations and inequalities; basic analytic geometry of lines and conic sections; elementary functions including polynomial, rational, exponential, and logarithmic, with emphasis on trigonometric functions, fundamental theorem of algebra and theory of equations; polar equations and curves.

Components: Lecture

MATH 108(3) Course ID:000396 01-JAN-1901

Mathematical Thinking

A course presents the diversity of mathematics and the spirit in which it is employed in various situations, including different problem solving strategies, inductive- deductive reasoning, paradoxes, puzzles and mathematical modeling. The contributions of various cultures and influences of other disciplines are studied. At least one significant writing assignment is required.

Components: Lecture

Mathematics - Mathematics and Applications Attributes:

MATH 140(3) Course ID:000397 01-JAN-1901

Calculus for Business Applications I

An integrated course in analytic geometry and calculus in the context of business and economics applications. Functions, limits, derivatives, integrals and mathematical modeling are used in problem solving in decision making context.

Components: Lecture

Attributes: Mathematics - Mathematics and Applications

MATH 150(4) Course ID:000438 01-JAN-1901

Calculus I

A course in analytic geometry and calculus. Elementary and transcendental functions are introduced and their properties are studied, limits, derivatives, integrals and mathematical modeling are used in problem solving

Components: Lecture

Attributes: Mathematics - Mathematics and Applications

MATH 151(4) Course ID:000439 01-JAN-1901 Calculus II

Includes the study of differentiation, integration, sequences, infinite series, and power series.

Lecture Components:

Requirement Group: Prerequisites: MATH 150

MATH 202(4) Course ID:000271 01-JAN-1901

Biostatistics

Use of probability and statistics in the description and analysis of biological data collected from

laboratory and or field experiments. Laboratory Components:

Same As Offering: BIOL 202

MATH 208(3) Course ID:000440 01-JAN-1901

Modern Math for Elementary Teachers I-Numbers and Problem Solving

Current issues of modern math curriculum including abstract thinking and problem solving approaches to teaching. Content covers systems of numeration, nature of numbers and fundamental operations, relations and functions, properties of integers, rational and real numbers, and mathematical modeling. Problem solving strategies and geometric interpretations are stressed. Designed for students intending to teach in K-8.

Components: Lecture

Attributes: Mathematics - Mathematics and Applications Report ID: SR301 Channel Islands Page No. 52 of 67

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Channel Islands - Academic Programs - Subject: Mathematics

MATH 230(3) Course ID:000441 01-JAN-1901

Logic

Introduction to modern deductive logic. Critical thinking and abstract approach to common language. Includes abstract sets and number sets, relations, prepositional logic- including common language cases, and theory of quantification.

Components: Lecture

MATH 240(3) Course ID:000442 01-JAN-1901

Introduction to Linear Algebra

Vector spaces, linear transformations, orthogonality, characteristic polynomial, quadratic forms, spectral

decomposition.

Components: Lecture

Requirement Group: Prerequisites: MATH 151

MATH 250(3) Course ID:000443 01-JAN-1901

Calculus III

Functions of several variables, solid analytic geometry, partial differentiation, multiple integrals with

applications. Vector analysis, line and surface integrals.

Components: Lecture

Requirement Group: Prerequisites: MATH 151

MATH 300(3) Course ID:000444 01-JAN-1901

Discrete Mathematics

Sets, algebraic systems, axioms, definitions, propositions and proofs. Combinatorics, graph theory, moduli calculus. Coding, coding errors and Hamming codes. Students are expected to write mathematical proofs and communicate mathematical ideas clearly in written and oral form.

Components: Lecture

Requirement Group: Prerequisites: MATH 151, MATH 230

MATH 308(3) Course ID:000445 01-JAN-1901

Modern Mathematics for Elementary School Teachers II- Geometry, Probability & Statistics

Current issues of modern math curriculum including abstract thinking and problem solving approaches to teaching. Content covers systems of geometry and geometric interpretation of real numbers, geometric constructions, mathematical modeling, basic probability and statistics. Problem solving strategies are stressed. Designed for students intending to teach.

Components: Lecture

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MATH 318(3) Course ID:000446 01-JAN-1901

Mathematics for Secondary School Teachers II- Geometry, Probability and Statistics

Current issues of modern secondary school math curriculum including abstract thinking and problem solving approaches to teaching. Content covers systems of geometry, algebra, precalculus, calculus, probability and statistics. Designed for students intending to teach.

Components: Lecture

MATH 330(3) Course ID:000447 01-JAN-1901

Mathematics for Artists

The course is specially designed for students interested in fine arts, with the emphasis on understanding geometric patterns and concepts by self explorations. Instead of concentrating on abstraction, the course creates a vast reservoir of art-related examples and hands-on experiences, and will give an innovative mathematical background for future artistic endeavors of students.

Components: Lecture

Attributes: Mathematics - Mathematics and Applications

MATH 331(3) Course ID:000316 01-JAN-1901

History of Mathematics

Study of breakthrough mathematical ideas and their creators, including historical and scientific context. Important concepts of current mathematics are studied: inception, development, difficulties, significance and various viewpoints will be presented. Lecture-discussion. At least one significant writing assignment is required.

Components: Lecture
Same As Offering: HIST 331

Attributes: Mathematics - Mathematics and Applications, Social Perspectives

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Channel Islands - Academic Programs - Subject: Mathematics

MATH 340(3) Course ID:000451 01-JAN-1901

Statistics for Business and Economics

Introduction to modern statistical methods used in business analysis and economics, especially in experimental data evaluation and decision making contexts. Topics include: sampling, probability, various distributions, correlation and regression, statistical inferences, hypothesis testing, problem solving and the consequences to underlying economical systems. Includes a project in the community.

Components: Lecture

Attributes: Mathematics - Mathematics and Applications

MATH 342(3) Course ID:000452 01-JAN-1901

Probability and Statistics

Data gathering, analysis and display. Validity of sampling methods and statistical conclusions. Probability, conditional probability, BayesÂ; Theorem, discrete and continuous random variables and their distribution (e.g., binomial, Poisson, hypergeometric, negative binomial, normal, exponential, gamma), moments, bivariate distributions, transformations of random variables, central and other limit theorems. Bayesian estimates, tests of hypotheses, nonparametric tests, decision theory. Modern computer software applications in statistics.

Components: Lecture

Attributes: Mathematics - Mathematics and Applications

Requirement Group: Prerequisites: MATH 151

MATH 344(3) Course ID:000453 01-JAN-1901

Analysis of Algorithms

Computer oriented study of seminumerical and non-numerical algorithms. Sorting, tree searching, generation of combinatorial structures, algorithm proof techniques, best algorithms, programming complexity, string matching.

Components: Lecture

Requirement Group: Prerequisites: MATH 300

MATH 346(3) Course ID:000156 01-JAN-1901

Scientific and Professional Ethics

Discussion of ethical issues and societal challenges derived from scientific research and professional activities. Examines the sources, fundamental principles, and applications of ethical behavior; the relationship between personal ethics and social responsibility of organizations; and the stakeholder management concept. Applies ethical principles to different types of organizations: business, non-profits, government, healthcare, science/technology, and other professional groups. Topics also include integrity of scientific research and literature and responsibilities of scientists to society, intellectual property, ethical practices in professional fields, ethical dilemmas in using animal or human subjects in experimentation, gene cloning, animal cloning, gene manipulation, genetic engineering, genetic counseling, and ethical issues of applying biotechnology in agricultural fields. Emphasizes cases to explore ethical issues.

Components: Lecture

Same As Offering: ANTH 346, BIOL 346, MGT 346, CHEM 346

Attributes: Social Perspectives

MATH 350(3) Course ID:000454 01-JAN-1901

Differential Equations and Dynamical Systems

Ordinary differential equations, existence and uniqueness of solutions. Linear equations. Laplace methods. Flows and diffeomorphisms, limit sets, iterations of maps. Positive entropy systems, chaotic behavior of trajectories.

Components: Lecture

Requirement Group: Prerequisites: MATH 250

MATH 351(3) Course ID:000455 01-JAN-1901

Real Analysis

Real number system, metric spaces, norms, function spaces. Continuity, differentiability, integrability of functions. Sequences and series.

Components: Lecture

Requirement Group: Prerequisites: MATH 250

MATH 393(3) Course ID:000456 01-JAN-1901

Abstract Algebra

Rings, modules, fields and their extensions. Groups and group actions, crystallographic groups.

Components: Lecture

Requirement Group: Prerequisites: MATH 300

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Channel Islands - Academic Programs - Subject: Mathematics

MATH 430(3) Course ID:000354 01-JAN-1901

Research Design and Data Analysis

Discussion of experimental design, sampling methods, data collection and methods of data analysis related to scientific fields.

Components: Laboratory

Same As Offering: BIOL 430, CHEM 430

Attributes: Mathematics - Mathematics and Applications

MATH 440(3) Course ID:000407 01-JAN-1901

Operations Research

Introduction to applied mathematical methods in management sciences. Topics include linear programming, managerial optimization methods, duality and equilibrium theorems, the simplex method, development of tools and methods required to make decisions and to solve operational problems in economy, decision and risk analysis, modeling and game theory. Other topics selected from parametric programming, large scale methods, generalized programming.

Components: Lecture

Attributes: Mathematics - Mathematics and Applications, Social Perspectives

MATH 450(3) Course ID:000408 01-JAN-1901

Partial Differential Equations and Mathematical Physics

Vector field theory, Fourier series.

Components: Lecture

Requirement Group: Prerequisites: MATH 350

MATH 451(3) Course ID:000409 01-JAN-1901

Numerical Analysis

Techniques of applied mathematics, solution of equations, finite differences, wavelets.

Components: Lecture

Requirement Group: Prerequisites: MATH 350, COMP 151

MATH 452(3) Course ID:000410 01-JAN-1901

Complex Analysis

Complex variable, analytic functions, complex integration, power series and conformal mappings.

Components: Lecture

Requirement Group: Prerequisites: MATH 250

MATH 480(3) Course ID:000411 01-JAN-1901

Differential and Riemannian Geometry

Implicit Function theorem. Reimannian manifolds, curvature, local isometries. Gauss-Bonnet Theorem.

Components: Lecture

Requirement Group: Prerequisites: MATH 351

MATH 482(3) Course ID:000412 01-JAN-1901

Number Theory & Cryptography

Unique factorization theorem, congruencies, primitive roots and indices, quadratic residues and the law of quadratic reciprocity, distribution of primes. Cryptography.

Components: Lecture

Requirement Group: Prerequisites: MATH 300

MATH 484(3) Course ID:000413 01-JAN-1901

Algebraic Geometry & Coding Theory

Study of algebraic varieties over algebraically closed fields. Modern application to coding theory.

Components: Lecture

Requirement Group: Prerequisites: MATH 393

MATH 490(3) Course ID:000415 01-JAN-1901

Topics in Modern Mathematics

New developments in mathematics.

Components:

Lecture

Requirement Group: Prerequisites: Junior Standing

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<u>Channel Islands - Academic Programs - Subject: Mathematics</u>

MATH 492(3) Course ID:000417 01-JAN-1901

Internship

Supervised work and study in industrial or scientific setting involving development of degree related skills. All students are required to present their projects at the Senior colloquium.

Components: Lecture

Requirement Group: Prerequisites: Junior Standing

MATH 494(3) Course ID:000419 01-JAN-1901 Instructor Consent Required

Independent Research

Supervised project involving theoretical research in the field of mathematics or its applications. All

students are required to present their projects at the Senior Seminar.

Components: Independent Study

Requirement Group: Prerequisites: Senior standing

MATH 497(3) Course ID:000422 01-JAN-1901 Instructor Consent Required

Directed Study

Supervised project involving library research. All students are required to present their projects at the

Senior Seminar.

Components: Lecture

Requirement Group: Prerequisites: Senior standing

MATH 499(1) Course ID:000424 01-JAN-1901

Senior Colloquium

Oral presentation of current advancements in the field, reports on students' projects, and invited lectures.

Components: Lecture

Requirement Group: Prerequisites: Senior standing

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Channel Islands - Academic Programs - Subject: Management

MGT 307(3) Course ID:000406 01-JAN-1901

Management of Organizations

Explores the fundamental concepts of managing people within an organizational context. Uses cases and in-class exercises to present management principles. Topics include planning, staffing, directing, measuring and controlling.

Components: Lecture

MGT 310(3) Course ID:000405 01-JAN-1901

Management of Internnational Business

Identification and analysis of management systems in cross-border environments. Explores the impact of economic, social, cultural political variables on the conduct of profit-making business. Extensive use of case analysis; and a country study project.

Components: Lecture

MGT 325(3) Course ID:000404 01-JAN-1901

Entrepreneurial Management

Explores the management of start-up and small businesses. Concentrates on initial strategy, location, financing, staffing, daily activities and controls, taxes. Students develop a business plan for a small business.

Components: Lecture

MGT 346(3) Course ID:000156 01-JAN-1901

Scientific and Professional Ethics

Discussion of ethical issues and societal challenges derived from scientific research and professional activities. Examines the sources, fundamental principles, and applications of ethical behavior; the relationship between personal ethics and social responsibility of organizations; and the stakeholder management concept. Applies ethical principles to different types of organizations: business, non-profits, government, healthcare, science/technology, and other professional groups. Topics also include integrity of scientific research and literature and responsibilities of scientists to society, intellectual property, ethical practices in professional fields, ethical dilemmas in using animal or human subjects in experimentation, gene cloning, animal cloning, gene manipulation, genetic engineering, genetic counseling, and ethical issues of applying biotechnology in agricultural fields. Emphasizes cases to explore ethical issues.

Components: Lecture

Same As Offering: ANTH 346, BIOL 346, CHEM 346, MATH 346

Attributes: Social Perspectives

MGT 421(3) Course ID:000403 01-JAN-1901

Human Resource Management

Principles, methods and procedures in the management of human resources. Topics include developing planning objectives for HR management, legal compliance, job analysis, recruiting, selection, training, compensation and employee relations.

Components: Lecture

Requirement Group: Prerequisites: MGT 307

MGT 425(3) Course ID:000402 01-JAN-1901

Management of Educational Organizations

Explores the principles of management of organizations and applies them to the unique environment of educational organizations. Topics include design and management of educational programs, goal setting and budgeting, resource management, differentiated staffing, performance measurement and special problems in school administration.

Components: Lecture

Requirement Group: Prerequisites: MGT 307

MGT 426(3) Course ID:000401 01-JAN-1901

Management of Healthcare Organizations

Explores the principles of management of organizations and applies them to the unique environment of healthcare organizations. Topics include volatile environment, escalating costs, identification of stakeholders, organizational design, use of technology, quality control, and special issues in healthcare management (bio-ethics, chemical dependency, stress, workforce diversity).

Components: Lecture

Requirement Group: Prerequisites: MGT 307

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Channel Islands - Academic Programs - Subject: Management

MGT 427(3) Course ID:000399 01-JAN-1901

Management of Not-For-Profit Organizations

Explores the principles of management of organizations and applies them to the unique environment of not-for-profit organizations. Topics include differences with profit-making organizations, identification of stakeholders, organizational and governance structure, financial sources, reward processes and accountability measures.

Components: Lecture

Requirement Group: Prerequisites: MGT 307

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Channel Islands - Academic Programs - Subject: Marketing

MKT 310(3) Course ID:000400 01-JAN-1901

Principles of Marketing

Presents and analyzes the fundamental principles of modern marketing: planning, pricing, distribution, and promotion. Applies the principles to products and services. Topics include market research, consumer behavior and market success measures. Focuses on domestic and international markets.

Components: Lecture

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<u>Channel Islands - Academic Programs - Subject: Music</u>

MUS 333(3) Course ID:000398 01-JAN-1901

Varieties of Musical Experiences

The study of music in its cultural and historical contexts, with an emphasis on the role of music as a form of human expression. A broad range of musical styles will be studied, including, but not limited to, European, Asian, and Middle Eastern classical music; American jazz and popular music; and folk music of Western and non-Western cultures. Students will study the unifying and authenticating nature of music within groups of people, as well as study the experience of music on a personal level.

Components: Lecture

MUS 432(3) Course ID:000246 01-JAN-1901

Arts of the Harlem Renaissance

The Harlem Renaissance was one of the most exciting epochs in American history. The art, literature and music produced in Harlem during the `20s and `30s has had a significant impact on American and world cultures. In this class, we will study these art forms and their historical genesis and legacy.

Components: Lecture

Same As Offering: ENGL 432, ART 432

Attributes: Fine Art Courses, Literature Courses
Requirement Group: Prerequisites: Upper division standing

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Channel Islands - Academic Programs - Subject: Physical Education

PHED 101(1) Course ID:000395 01-JAN-1901

Walking for Health

Knowledge of cardiovascular fitness, including walking as aerobic exercise. Physical development through cardiovascular training, muscle strengthening, and stretching.

Components: Lecture

PHED 102(1) Course ID:000394 01-JAN-1901

Seminar in Traditional Asian Martial Arts Tai Ji

Development of personal skills in traditional martial and health arts. Understanding history, cultural background, patterns, and strategies for participation in and effects on personal health.

Components: Lecture

PHED 103(1) Course ID:000391 01-JAN-1901

Yoga

Development of personal skills in yoga. Understanding of effects on strength, flexibility and mind body

connections.
Components: Lecture

PHED 105(1) Course ID:000390 01-JAN-1901

Zen of Surfing

Exploration into the physiological and psychological benefits that result from human interaction with forces of nature. Students develop an increased understanding of the ocean and complex dynamics that underlie the sport of surfing. The interrelationship between physical activity and personal aesthetics are explored through weekly surfing activities.

Components: Lecture

PHED 302(2) Course ID:000389 01-JAN-1901

Motor Learning, Fitness and Development in Children

Factors affecting motor learning; theories of learning and their application to the learning of physical skills; motor learning at beginning through advanced skill levels; health, fitness and activities for children; planning and teaching age appropriate developmental movement experiences.

Components: Lecture

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<u>Channel Islands - Academic Programs - Subject: Physics</u>

PHYS 200(4) Course ID:000386 01-JAN-1901

General Physics I

An introduction to the properties of matter, classical mechanics, wave motion and thermal physics. A lab fee

is required.

Components: Lecture, Laboratory

Attributes: Physical Sciences - Physics, Geology, Earth Sci

Requirement Group: Prerequisites: MATH 150

PHYS 201(4) Course ID:000387 01-JAN-1901

General Physics II

An introduction to electromagnetic theory, light, and atomic and nuclear physics. A lab fee is required.

Components: Lecture, Laboratory

Attributes: Physical Sciences - Physics, Geology, Earth Sci

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<u>Channel Islands - Academic Programs - Subject: Psychology</u>

PSY 100(3) Course ID:000385 01-JAN-1901

Introduction to Psychology

The purpose of this course is to introduce the theories, research and applications that constitute the field of psychology as it is broadly defined. Students will learn about the field of psychology through lectures, discussions, demonstrations, group activities, and multi-media presentations. Emerging issues in the field of psychology, what different types of psychologists do, and how to critically evaluate psychological literature will be covered.

Components: Lecture

Attributes: Human Psychological & Physiological Perspectives

PSY 200(3) Course ID:000383 01-JAN-1901

History and Systems of Psychology

This course examines the historical development of psychological thought and methodology from its origins in philosophy, its attempts to become a natural science, through the diaspora of contemporary psychological thought. The major schools of psychology (e.g., Behaviorism, Cognitive, Gestalt, Humanistic, Psychoanalysis), will be explored in context of their philosophical and cultural influences.

Components: Lecture

PSY 210(3) Course ID:000380 01-JAN-1901

Learning, Cognition and Development

This course presents an overview of the theories of learning and human development. Major theories of learning and of psychological, emotional and ethical development will be addressed across the lifespan from birth to old age, with consideration given to the application of these theories in real life setting such as schools and other organizations.

Components: Lecture

Attributes: Human Psychological & Physiological Perspectives

PSY 212(3) Course ID:000275 01-JAN-1901

Neurobiology and Cognitive Science

Principles of brain organization and function underlying behavior. Topics include neuroanatomy and physiology of language, vision, sexual behavior, memory and abnormal behavior.

Components: Lecture
Same As Offering: BIOL 212

Attributes: Life Science - Biology, Chemistry, Biochemistry, Human Psychological & Physiological

Perspectives

PSY 215(3) Course ID:000378 01-JAN-1901

Cognition & Learning

This courses examines psychological theories of cognition as they apply to learning. Theories introduced in this course will seek to explain learning phenomena and provide a conceptual framework for understanding and discussing behavior and cognition. Practical applications and current research in the cognitive sciences will also be discussed.

Components: Lecture

PSY 220(3) Course ID:000376 01-JAN-1901

Human Sexual Behavior

This course covers knowledge about the processes and variations in: sexual functions and reproduction; intimate relationships; sexual and gender role development and behavior; and the social, cultural, historical and moral contexts of sex and love.

Components: Lecture

Attributes: Human Psychological & Physiological Perspectives

PSY 330(3) Course ID:000344 01-JAN-1901

Health Psychology

This course will focus on those areas of psychology which relate to health and medicine including, mind-body interactions, Psychoneuroimmunology, psychology as it relates to nutrition, psychology as it relates to illness, and behavioral medicine.

Components: Lecture
Same As Offering: HLTH 344

Attributes: Human Psychological & Physiological Perspectives

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Channel Islands - Academic Programs - Subject: Psychology

SY 333(3) Course ID:000374 01-JAN-1901

Measurement & Testing of Groups and Individuals

This course covers the principles of measurement as applied to group standardized measures of achievement, special aptitude, intelligence, personality, and interest for use in educational settings. This course will also survey the administering, scoring, and interpreting of these measures. Language and culture issues related to testing will be discussed.

Components: Lecture

PSY 338(3) Course ID:000234 01-JAN-1901

Psychology of Art and Artists

An inquiry into the mind of the artist and the psychological dynamics that underlie the creative process. Emphasis is placed on deciphering personal allegory and universal symbolism hidden within a wide range of visual and conceptual genres in painting, sculpture, film and music. The self-image of the artist will be examined from private and public viewpoints.

Components: Lecture
Same As Offering: ART 338

Attributes: Fine Art Courses, Human Psychological & Physiological Perspectives

PSY 339(3) Course ID:000239 01-JAN-1901

Psychopathology in Literature

This course is co-developed and co-taught by faculty from Psychology and English. Human psychology and its manifestations in literature are the topics of the course, and students will use skills from both disciplines to address the ideas and issues presented by the literature.

Components: Lecture
Same As Offering: ENGL 339

Attributes: Literature Courses, Human Psychological & Physiological Perspectives

PSY 341(3) Course ID:000152 01-JAN-1901

Culture and Personality

This course provides a cross-cultural perspective on the relationships between culture and personality. The nature/nurture debate is examined in different cultures. Team taught with psychology.

Components: Lecture Same As Offering: ANTH 341

Attributes: Social Perspectives, Human Psychological & Physiological Perspectives

PSY 344(3) Course ID:000371 01-JAN-1901 Instructor Consent Required

Psychology and Traditional Asian Thought

This course examines the differences and similarities between the Western practice of psychology and traditional Asian systems of philosophy and religion. Concepts of health, well-being & enlightenment, and pathology will be considered from both Western and Asian viewpoints. Particular attention will be given to Buddhism, Taoism, and depth psychologies. Readings will be drawn from classical Asian literature as well as contemporary psychology. Mediation and other practices will be explored the context of Western Psychology.

Components: Lecture

Attributes: Human Psychological & Physiological Perspectives

PSY 345(3) Course ID:000365 01-JAN-1901

Individuals with Disabilities & Society

Major types of disabilities and giftedness, including definitions, causes, characteristics, and educational implications. Disability perspectives. Social, legal, and educational considerations of disability issues.

Components: Lecture Same As Offering: SPED 345

PSY 346(3) Course ID:000465 01-JAN-1901

Psych of Motivation Need description

Components: Lecture

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Channel Islands - Academic Programs - Subject: Psychology

PSY 349(3) Course ID:000363 01-JAN-1901

Traditional and Alternative Views of Healing

This course surveys the history and cultural contexts of health and healing from around the world. Through presentations of different medical traditions, the psychological, cultural, practical, and spiritual dimensions of traditional and alternative healing systems will be elucidated. When appropriate the empirical, theoretical and scientific foundations of selected healing systems will be discussed. This course will also attempt to place traditional Western modes of healing including biomedicine and clinical psychology in context of some of the other traditions.

Components: Lecture

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PSY 350(3) Course ID:000362 01-JAN-1901

Clinical & Counseling Psychology

This course introduces students to the clinical practice of psychology. The major theories of psychotherapy and the process of psychotherapy will be covered as well as other modalities for the treatment of mental and behavioral disorders such as learning therapies and psychopharmacology. The course will also seek to develop an awareness of ethnic and cultural differences related to the practice of psychology.

Components: Lecture

PSY 355(3) Course ID:000361 01-JAN-1901

Organizational and Industrial Psychology

This course surveys the field of industrial/organizational Psychology. Subfields of personnel psychology, human factors engineering, industrial social, and industrial clinical Psychology will be viewed from practical and theoretical perspectives. The course will also cover concepts of organizational development, communication, and corporate group behavior.

Components: Lecture

PSY 457(3) Course ID:000360 01-JAN-1901

Criminal Behavior

This course introduces students to the fundamentals of criminal psychology through the study of the psychological factors which relate to or cause criminal behavior in individuals. The practice of forensic psychology, the legal system, law enforcement psychology, prison psychology, and the criminal behavior of groups will also be discussed.

Components: Lecture

Attributes: Human Psychological & Physiological Perspectives

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PSY 461(3) Course ID:000359 01-JAN-1901

Advanced Topics in Child and Adolescent Development

This course represents an in-depth study of aspects of growth and development which influence behavior of school-age children and adolescents. Using primary sources and current research findings students will gain an understanding of research methods in child development and a critical appreciation of the practice of child psychology. Different areas of child and adolescent development will be considered from cross-cultural perspectives.

Components: Lecture

PSY 473(3) Course ID:000358 01-JAN-1901

Bizarre Behavior and Culture Bound Syndromes

This course examines behaviors which seem to be at the extreme edge of the human repertoire. Nevertheless, such behaviors have at different times and cultures been considered normal. Students in this course will examine such behaviors with an open mind, while attempting to understand that so-called normal behaviors in our own culture could be construed as ""bizarre"".

Components: Lecture

Attributes: Human Psychological & Physiological Perspectives

Requirement Group: Prerequisite: PSY 350

Seminar

PSY 482(3) Course ID:000357 01-JAN-1901 Instructor Consent Required

Seminar in Quantitative Methods

Components:

This course examines the application of various quantitative methodologies in detail. Topics can vary but may include non-parametric methods such as logistic, survival analysis, and non-linear regression.

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<u>Channel Islands - Academic Programs - Subject: Psychology</u>

PSY 483(3) Course ID:000170 01-JAN-1901

Qualitative Research Methods in the Social Sciences

This course provides the student with an understanding of how social scientists collect and analyze data. Explores methods and procedures used in anthropology research, including creating a research design, interviewing, cross-verifying data, and interpreting data. This course also details the various methods employed by ethnographers, folklorists, and oral historians in collecting oral testimony in a structured, systematic method. Particular attention is given to ethical and legal issues.

Components: Lecture
Same As Offering: ANTH 483

PSY 489(1 - 3) Course ID:000345 01-JAN-1901

Advanced Topics in Psychology

A seminar course, which provides an in-depth study of some aspect of psychology. Content varies and so the course is repeatable.

Components: Lecture

PSY 492(1 - 3) Course ID:000340 01-JAN-1901 Instructor Consent Required

Psychological Internship or Service Learning

Supervised work/volunteer experience in an appropriate setting with supervision in the field from an appropriate person with credentials and/or experience in a specialty related to psychology. Students are required to write a report of their experience.

Components: Lecture

PSY 494(1 - 3) Course ID:000337 01-JAN-1901 Instructor Consent Required

Independent Research in Psychology

Research project for undergraduate students supervised by members of the psychology faculty. Research to be elected on basis of interest of student. A written report of the research is required.

Components: Lecture

PSY 497(1 - 3) Course ID:000335 01-JAN-1901 Instructor Consent Required

Directed Study in Psychology

An intensive study of some aspect of psychology, Usually via an in-depth review of the literature. Intended for undergraduate students supervised by members of the psychology faculty. A written report summarizing the study is required.

Components: Lecture

PSY 499(1 - 3) Course ID:000333 01-JAN-1901

Senior Capstone Course

This course is an interdisciplinary experience in which students work in teams, contributing their expertise to a community-based project group.

Components: Lecture

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Course Catalog

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Channel Islands - Academic Programs - Subject: Special Education

SPED 345(3) Course ID:000365 01-JAN-1901

Individuals with Disabilities & Society

Major types of disabilities and giftedness, including definitions, causes, characteristics, and educational implications. Disability perspectives. Social, legal, and educational considerations of disability issues.

Components: Lecture Same As Offering: PSY 345

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Channel Islands - Academic Programs - Subject: Theatre

TH 333(3) Course ID:000235 01-JAN-1901

Multicultural Drama in Performance/Production

America is a country of many cultures, and each of these has brought legacies of its roots to the American stage. In this course we will read plays written by Native Americans, Hispanic Americans, Asian Americans, African Americans and others. We will also stage mini productions of one or more of those plays.

Components: Lecture
Same As Offering: ENGL 333

Attributes: Literature Courses, Languages and Cultures

TH 410(3) Course ID:000243 01-JAN-1901

Shakespeare's Plays

Study of the many aspects of Shakespeare's plays as literature, language, context, form and style, as well as the ways in which these elements work as parts of a whole, which includes spoken speech and other sounds as well as physical form and movement. Choices are: Shakespeare's Early Plays (pre-1600) and Shakespeare's Later Plays (post-1600).

Components: Lecture
Same As Offering: ENGL 410