

CSLOS

Administration of Justice

Division: PATH (Public Safety, Adv. Manufacturing, Transportation, Health & Kinesiology)

CSLOs

AJ 50 Introduction to Administration of Justice

Upon completion of this course, the student should be able to:

- critically analyze and discuss issues of crime and justice.
- define causal theories, criminal types and societal factors used to explain the nature of crime.
- describe the evolution of the American criminal justice system, including the history, development, structure, and function of police, courts, and corrections.
- articulate the scope of the crime problem in present-day America and discuss the methods, theories, and concepts associated with measuring crime.

AJ 60 Criminal Law

Upon completion of this course, the student should be able to:

- identify the elements of some common offenses as codified in the California Penal Code.
- identify the origins and foundational concepts of civil and criminal law and explain how laws are developed and modified.
- describe the differences between specific, general, and transferred intent crimes.

AJ 61 Evidence

Upon completion of this course, the student should be able to:

- describe the proper methods of handling evidence to ensure evidence admissibility will not be annulled through the use of improper collection techniques or storage procedures.
- identify the rules of evidence pursuant to the California Evidence Code and how they impact the gathering, cataloging and storage of evidence by the police.
- explain the differences between Federal Rules of Evidence and the California Evidence Code, and explain the basic rules of search and seizure, the Exclusionary Rule and the "Fruits of the Poisonous Tree" doctrine.

AJ 66 Juvenile Procedures

Upon completion of this course, the student should be able to:

- explain the causes and effects of juvenile delinquency and crime.
- explain the historical evolution of the juvenile justice system and its processes.
- identify and discuss the differences between juvenile law and adult law.
- identify status offenses.

AJ 70 Community Relations

Upon completion of this course, the student should be able to:

- compare, contrast and explain different community-based policing programs and the strengths and limitations of each in their relationship to a diverse community.
- describe the structure of various cultures in a community, including special populations and subcultures and how to effectively communicate with each group.
- identify the structure of the police organization and its impact on officer behavior, community relations and community members.

CSLOS

American Sign Language

Division: A&H (Arts & Humanities)

CSLO

ASL 1A American Sign Language I

Upon completion of this course, the student should be able to:

- demonstrate proficiency in comprehension of American Sign Language for daily living contexts.
- demonstrate receptive and expressive ASL grammatical functions and knowledge for daily living.
- properly respond in American Sign Language to simple questions about their selves and surroundings.

ASL 1B American Sign Language II

Upon completion of this course, the student should be able to:

- demonstrate increased receptive/expressive ASL grammatical functions and knowledge for daily living.

ASL 2B American Sign Language IV

Upon completion of this course, the student should be able to:

- demonstrate comprehension and production of ASL discourse.

Anthropology

Division: BSSL (Business, Social Science, and Learning Resources)

CSLOs

ANTR 1 Biological Anthropology

Upon completion of this course, the student should be able to:

- deconstruct the biological concept of "race."
- describe and identify fossil hominid species.
- explain how natural selection works.

ANTR 1L Biological Anthropology Lab

Upon completion of this course, the student should be able to:

- practice and apply understandings of the scientific method in a laboratory setting.
- critically analyze and interpret biological anthropological data to illustrate evolutionary trends.
- apply anthropological principles for solving human problems on the local, regional, and world scales.

ANTR 2 Introduction to Archaeology

Upon completion of this course, the student should be able to:

- apply the methods, tools, and technical skills of archaeological research.
- describe the legal/ethical framework for archaeology.
- use theory to interpret archaeological data.

ANTR 3 Cultural Anthropology

Upon completion of this course, the student should be able to:

- apply anthropological principles of holism, ethnocentrism, and cultural relativism, to solve human problems on the local, regional and world scales.
- recognize forms of discrimination, both explicit and implicit, incidental and institutionalized, and gain cultural competence in approaching, understanding and solving such inequities.

CSLOS

- appreciate and be sensitive to the cultural diversity of the world through a variety of ethnographic studies and cross-cultural explorations.

ANTR 7 Native American Cultures of North America

Upon completion of this course, the student should be able to:

- define the current social, economic, education and political issues and goals of contemporary tribes.
- explain the psychological and anthropological concepts behind prejudice, discrimination, and racism.
- develop research skills with special emphasis on interdisciplinary studies.

ANTR 12 Magic/Religion/Witchcraft/Healing

Upon completion of this course, the student should be able to:

- describe the role and responsibility of religious specialists.
- the components of various religious rituals.
- interpret symbolic cultural practices through various anthropological and theoretical perspectives.

ANTR 13 Introduction to Forensic Anthropology

Upon completion of this course, the student should be able to:

- describe the legal and ethical framework of forensic anthropology.
- analyze human bones for identification of sex, ancestry, age, trauma and stature.

Art

Division: A&H (Arts & Humanities)

CSLO

ARTS 2A Introduction to Drawing

Upon completion of this course, the student should be able to:

- demonstrate ability to recognize and recreate, on a picture plane, observed values and proportions.
- compose drawings with the elements and principles of visual art and design.
- implement materials common to the drawing process.

ARTS 3A Figure and Composition I

Upon completion of this course, the student should be able to:

- comprehend artistic anatomy of the human figure.
- create a series of investigative drawings with different expressive strategies for the figure.
- demonstrate the ability to analyze the human form, and represent that form on a 2-D surface.

ARTS 3B Figure and Composition II

Upon completion of this course, the student should be able to:

- comprehend and create an informed body of work using artistic anatomy of the human figure.
- create a series of intermediate level investigative drawings with different expressive strategies for the figure.
- demonstrate an intermediate ability to analyze the human form, and represent that form on a 2-D surface.

ARTS 3C Figure and Composition III

Upon completion of this course, the student should be able to:

- comprehend and create a well-informed body of work using artistic anatomy of the human figure.
- create a series of advanced level investigative drawings with different expressive strategies for the figure.
- demonstrate an advanced ability to analyze the human form, and represent that form on a 2-D surface.

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ARTS 3D Figure and Composition IV

Upon completion of this course, the student should be able to:

- comprehend and create a well-informed body of work using artistic anatomy of the human figure.
- create a series of advanced level investigative drawings with different expressive strategies for the figure.
- demonstrate an advanced ability to analyze the human form, and represent that form on a 2-D surface.

ARTS 7A Introduction to Watercolor Painting

Upon completion of this course, the student should be able to:

- demonstrate a knowledge and awareness of color theory and a variety of application techniques.
- demonstrate an aesthetic awareness of value and its uses in creating light and space on a 2 dimensional plane.
- demonstrate proficiency in the basic techniques of watercolor painting: flat wash, glazing, wet-in-wet.
- demonstrate the use of materials and equipment of the craft of painting in watercolor.
- produce watercolor paintings using basic techniques.

ARTS 7B Watercolor Painting

Upon completion of this course, the student should be able to:

- complete a body of paintings that demonstrates an understanding of specific subject based material.
- demonstrate a knowledge of composition.
- demonstrate a mastery of watercolor application and techniques.
- produce watercolor paintings demonstrating intermediate color theory applications.
- produce watercolor paintings demonstrating intermediate value applications.

ARTS 7C Advanced Watercolor Painting I

Upon completion of this course, the student should be able to:

- demonstrate advanced painting skills utilizing interdisciplinary/hybrid approaches to painting utilizing watercolors alone or modified with mixed media.
- demonstrate aesthetic independence, critical thinking, creative initiative, and formal knowledge via an independent research project.
- identify advanced technical problems, analyze and objectively assess advanced watercolor paintings in a verbal critique.
- produce watercolor paintings demonstrating advanced color theory applications utilizing watercolors alone or modified with mixed media.
- produce watercolor paintings demonstrating advanced composition applications.

ARTS 7D Advanced Watercolor Painting II

Upon completion of this course, the student should be able to:

- demonstrate advanced painting skills utilizing interdisciplinary/hybrid approaches to painting utilizing watercolors alone or modified with mixed media.
- demonstrate aesthetic independence, critical thinking, creative initiative, and formal knowledge via an independent research project.
- identify advanced technical problems, analyze and objectively assess advanced watercolor paintings in a verbal critique.
- produce watercolor paintings demonstrating advanced color theory applications utilizing watercolors alone or modified with mixed media.
- produce watercolor paintings demonstrating advanced composition applications.

ARTS 12A Oil/Acrylic Painting: Beginning

Upon completion of this course, the student should be able to:

- administer appropriate terminology for critiquing and analyzing paintings.
- content to paintings and explain its meaning.
- compose paintings with the elements and principles of visual art and design.
- develop painting skills.
- paint with a variety of techniques.

CSLOS

ARTS 12B Oil/Acrylic Beginning II

Upon completion of this course, the student should be able to:

- administer appropriate terminology for critiquing and analyzing paintings.
- content to paintings and explain its meaning.
- compose paintings with the elements and principles of visual art and design.
- develop upon established painting skills.
- paint with a variety of techniques and refine those techniques.

ARTS 12C Oil/Acrylic Advanced I

Upon completion of this course, the student should be able to:

- administer appropriate terminology for critiquing and analyzing paintings.
- apply content to paintings and explain its meaning.
- compose paintings with the elements and principles of visual art and design.
- develop further upon established painting skills.
- focus on previously refined techniques to develop skill.

ARTS 12D Oil/Acrylic Advanced II

Upon completion of this course, the student should be able to:

- administer appropriate terminology for critiquing and analyzing paintings.
- apply researched content to paintings and explain its meaning.
- compose paintings with the elements and principles of visual art and design.
- focus on previously refined techniques to develop skill.

ARTS 23 2-D Design

Upon completion of this course, the student should be able to:

- create a portfolio of all projects that demonstrates a working knowledge of 2D design.
- create a self-portrait collage that demonstrates knowledge of the elements and principles of design.

ARTS 24 Three-Dimensional Design and Modeling

Upon completion of this course, the student should be able to:

- demonstrate and apply an understanding of 3D composition.
- demonstrate and apply excellent craftsmanship.

Art History

Division: A&H (Arts & Humanities)

CSLO

ARHS 1 Introduction to Art History

Upon completion of this course, the student should be able to:

- demonstrate critical and creative thinking by applying interdisciplinary approaches to the interpretation of artwork.
- identify formal elements in an artwork and be able to ascertain how these elements create meaning in the chosen art work.
- Identify themes of art within a chosen art work across a broad range of cultures and time periods.

ARHS 2 Art of the Ancient Americas

Upon completion of this course, the student should be able to:

- analyze artwork of the Ancient Americas using art historical methodology.
- identify and evaluate art historical styles, movements, and concepts in the art of the Ancient Americas.
- recognize the relationship between art and its geographic, cultural, and historical context.

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ARHS 4 Western Art History – Ancient to Medieval

Upon completion of this course, the student should be able to:

- analyze the religious, cultural, economic and political issues of the ancient Western world and their relationship to artistic and architectural production.
- articulate connections between artistic movements and historical events in the Western world from pre-history through the Gothic period.
- identify ancient Western art movements, artists, and technical processes.

ARHS 5 Western Art History – Renaissance to Contemporary

Upon completion of this course, the student should be able to:

- analyze the religious, cultural, economic and political issues of the modern Western world and their relationship to artistic and architectural production.
- analyze works of art and how they relate to their associated world geography.
- identify Western art movements, artists, and technical processes from the Renaissance through the 20th century.

ARHS 7 Modern Art History

Upon completion of this course, the student should be able to:

- relate relevant culture and history to the various styles of Modern and Contemporary art.
- understand techniques and media used in art making processes.
- identify common ideas that envelope Modern and Contemporary art.
- distinguish between various styles developed during these historical eras.
- analyze formal elements and principles of art.

Astronomy

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

ASTR 30L Introduction to Astronomy Laboratory

Upon completion of this course, the student should be able to:

- effectively communicate the methods, analysis, results, and conclusions of their own scientific experiments.
- perform naked eye and telescopic observations of objects in the night sky.
- quantitatively analyze their laboratory data, compare their results to accepted values, and evaluate the accuracy of their experiment.

ASTR 31 Introduction to Astronomy: The Solar System

Upon completion of this course, the student should be able to:

- describe the ways in which scientific principles have shaped the modern world and relate to daily life.
- explain physical principles relevant to the solar system and its formation, as well as those relevant to the search for extrasolar planets.
- use quantitative reasoning to determine relationships between physical quantities in astronomy.

ASTR 32 Introduction to Astronomy: Stars and the Universe

Upon completion of this course, the student should be able to:

- describe the ways in which scientific principles have shaped the modern world and relate to daily life.
- use quantitative reasoning to determine relationships between physical quantities in astronomy.
- explain physical principles relevant to light, telescopes, stars, galaxies, and cosmology.

CSLOS

Automotive Technology

Division: PATH (Public Safety, Adv. Manufacturing, Transportation, Health & Kinesiology)

CSLOs

AUTO A6 Electrical/Electronic Systems

Upon completion of this course, the student should be able to:

- apply electrical precautions.
- obtain and interpret data related to the electrical system.

AUTO A7 Automotive Heating and Air Conditioning

Upon completion of this course, the student should be able to:

- apply HVAC safety precautions.
- read and interpret HVAC gauges.

AUTO A8 Engine Performance

Upon completion of this course, the student should be able to:

- apply emission safety precautions.
- read and interpret scanner data.

AUTO INTL Automotive Service and Introduction Hands-On Lab

Upon completion of this course, the student should be able to:

- perform and oil change with 100% accuracy.
- recognize and apply shop safety precautions.

AUTO INTZ Automotive Service and Introduction Lecture

Upon completion of this course, the student should be able to:

- recognize and apply shop safety precautions.
- perform and oil change with 100% accuracy.

AUTO LABA Automotive Lab

Upon completion of this course, the student should be able to:

- apply safety in all lab conditions.
- work autonomously in a shop environment.

AUTO LABB Automotive Lab Advanced

Upon completion of this course, the student should be able to:

- apply all safety precautions.
- complete hands-on lab sessions with no instructor supervision necessary.

AUTO LABC Automotive Lab Specialized Bench Work

Upon completion of this course, the student should be able to:

- apply all safety precautions.
- complete hands-on lab sessions with no instructor supervision necessary.

AUTO LABD Automotive Lab Specialized Electronic Work

Upon completion of this course, the student should be able to:

- apply all safety precautions.
- complete hands-on lab sessions with no instructor supervision necessary.

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AUTO L1L2 Smog Level One and Level Two

Upon completion of this course, the student should be able to:

- apply all safety precautions.
- complete hands-on lab sessions with no instructor supervision necessary.

Biological Sciences

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

BIO 1A General Botany

Upon completion of this course, the student should be able to:

- conduct a research project, take measurements, keep accurate records, analyze and draw conclusions, and communicate experimental results in a standard format for scientific research.
- explain and apply principles and processes of botany and ecology at different organizational levels, from the biochemical to the ecological.
- explain and demonstrate the theoretical and practical aspects of using a compound microscope and dissecting microscope to study microorganisms and internal and external structures of plants, algae and fungi.
- have attained hands-on experience with and demonstrated proficiency in standard biological techniques, using industry-level biology laboratory equipment and/or discipline-specific computer hardware and software.

BIO 1B General Zoology

Upon completion of this course, the student should be able to:

- gain hands-on experience with and demonstrate proficiency in standard biological techniques, using industry level biology laboratory equipment and/or discipline-specific computer hardware and software.
- conduct a research project and communicate experimental results using standard scientific methods.
- explain and apply principles and processes of zoology and evolution at different organizational levels, from tissues to the ecological.
- explain and demonstrate the theoretical and practical aspects of using a compound microscope to investigate structures, functions, and behaviors of unicellular eukaryotes and animal taxa.

BIO 1C Cell and Molecular Biology

Upon completion of this course, the student should be able to:

- conduct an independent research project, keep accurate records, analyze and draw conclusions, and communicate experimental findings in a standard format for scientific research.
- explain and demonstrate the theoretical and practical aspects of using a compound microscope to study the structure and function of cells, including preparation and staining of samples for compound microscopy.
- explain and apply basic principles and processes of cellular and molecular biology at different levels, from the biochemical to the cellular.
- gain hands-on experience with and demonstrate proficiency in standard biological techniques, using industry level biology laboratory equipment and/or discipline-specific computer hardware and software.

BIO 2A Bioinformatics

Upon completion of this course, the student should be able to:

- analyze and evaluate bioinformatics data to discover patterns and critically evaluate conclusions.

BIO 7A Human Anatomy

Upon completion of this course, the student should be able to:

- identify the structures of the body systems using models, slides, cadavers, and/or visual media.

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- relate structure to the function of anatomical structures and understand how a change in structure would alter function.
- analyze clinical cases and/or human pathologies and communicate findings utilizing academic language.

BIO 7B Human Physiology

Upon completion of this course, the student should be able to:

- apply the principles of homeostasis and the use of feedback loops to control physiological systems in the human body.
- evaluate physiological functions of select organ systems by interpreting graphs of physiological data and be able to solve allied-based math problems.
- research a relevant topic in physiology and communicate their findings clearly in writing or orally to others, demonstrating content knowledge acquired from reliable scientific sources.

BIO 7C Microbiology

Upon completion of this course, the student should be able to:

- acquire, articulate, and apply specialized language and knowledge relevant to microbiology.
- acquire and demonstrate competency in laboratory safety and in routine and specialized microbiological laboratory skills applicable to microbiological research or clinical methods, including accurately reporting observations and analysis.
- explain and demonstrate the theoretical and practical aspects of using a compound microscope to study microorganisms using the oil immersion objective lens.
- research a relevant topic in microbiology and communicate scientific concepts, experimental results and analytical arguments clearly and concisely in writing and/or orally, demonstrating content knowledge acquired from the course work and from reliable scientific sources.

BIO 10 Introduction to the Science of Biology

Upon completion of this course, the student should be able to:

- conduct guided experiments in the laboratory and interpret the results of these investigations, individually and/or in collaboration with other students.
- to explain and apply basic principles of ecology, cellular, evolutionary, and organismal biology.
- properly manipulate a compound microscope and demonstrate knowledge of its parts and uses.
- have gained hands-on experience with and demonstrated proficiency in standard biological techniques, using industry-level biology laboratory equipment and/or discipline-specific computer hardware and software.

BIO 20 Contemporary Human Biology

Upon completion of this course, the student should be able to:

- describe and relate the physical structure of the cells, tissues types and organ systems to their function.
- explain the concept of homeostasis and how the different body systems maintain homeostasis, and be able to relate homeostatic failure to some common pathological conditions.

BIO 30 Introduction to College Biology

Upon completion of this course, the student should be able to:

- conduct guided experiments in the laboratory and interpret the results of these investigations, individually and/or in collaboration with other students.
- demonstrate writing proficiency on a written assignment which incorporates scientific data and/or basic principles of biology.
- explain basic principles of biochemistry, ecology, and cellular, evolutionary, and organismal biology.
- properly manipulate a compound microscope and demonstrate knowledge of its parts and uses.
- have gained hands-on experience with and demonstrated proficiency in standard biological techniques, using industry-level biology laboratory equipment and/or discipline-specific computer hardware and software.

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BIO 40 Humans and the Environment

Upon completion of this course, the student should be able to:

- analyze and critically evaluate environmental information from various sources, and present their findings.
- discuss environmental problems, their causes and evaluate solutions.
- explain basic principles of ecology involving energy flow, cycling of matter, interactions within and between populations and assess the impact of humans on the biosphere.

BIO 50 Anatomy and Physiology

Upon completion of this course, the student should be able to:

- list the organ systems, identify the structures of each organ system and explain their general functions.
- research a relevant anatomical or physiological topic and communicate their findings to others, demonstrating content knowledge acquired from reliable scientific sources.

Business

Division: BSSL (Business, Social Science, and Learning Resources)

CSLOs

BUSN 1A Financial Accounting

Upon completion of this course, the student should be able to:

- calculate and analyze current ratio, debt ratio, and gross profit ratio.
- identify and name different components of a balance sheet and income statement.

BUSN 1B Managerial Accounting

Upon completion of this course, the student should be able to:

- to analyze and calculate the impact of changes in business income using cost volume profit analysis and construct contribution margin statements.
- identify and categorize different cost classifications for fixed, variable, and mixed costs.
- prepare operating and financial budgets and analyze variances.

BUSN 18 Business Law

Upon completion of this course, the student should be able to:

- compare and contrast alternative legal theories as they apply to a case.
- critique legal decisions made by the courts.
- evaluate the dynamics behind multinational enterprises.
- formulate legal conclusions based on sound legal reasoning.

BUSN 33 The Fundamentals of Personal and Family Financial Planning

Upon completion of this course, the student should be able to:

- compare the common types of consumer credits including credit cards and installment loans.
- develop a comprehensive personal financial plan.
- explain fundamental economic considerations that affect decision-making in personal finance.
- identify and categorize the financial statement elements associated with the balance sheet and income statement.

BUSN 40 Introduction to Business

Upon completion of this course, the student should be able to:

- communicate the impact of compliance-based and integrity-based ethics codes on the role of business in a market economy.
- compare the three primary business formations used by privately held American businesses.

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- contrast management and leadership strategies in the function areas of management, marketing, finance, human resources and production.

BUSN 45 Entrepreneurship

Upon completion of this course, the student should be able to:

- explain why creativity and innovation are integral parts of entrepreneurship.
- assess their readiness/ability/aptitude for entrepreneurship.
- create a lean business model.
- describe attributes required for being an entrepreneur.

BUSN 48 Human Relations in Organizations

Upon completion of this course, the student should be able to:

- analyze the primary leadership styles.
- compare and contrast the concepts of work, worth and leisure in the United States.
- describe the characteristics of change.
- evaluate organizational strategies of motivation.

BUSN 51 Accounting for Small Businesses

Upon completion of this course, the student should be able to:

- accurately record business transactions using journal entries.
- prepare a basic Income Statement and Balance Sheet for a merchandising company.

BUSN 52 Business Communications

Upon completion of this course, the student should be able to:

- evaluate the quality of business communication.
- plan for a job interview.
- solve a variety of communication problems.

BUSN 55 Business Mathematics

Upon completion of this course, the student should be able to:

- identify and interpret trends over a period using percentage increase or decrease.
- use percentages to calculate period over period increase or decrease in a given set of data.

BUSN 56 Introduction to Management

Upon completion of this course, the student should be able to:

- communicate the roles managers play in organizations.
- compare and contrast the primary managerial functions.
- model the primary state laws that govern managerial decisions.

BUSN 61 Quickbooks Accounting

Upon completion of this course, the student should be able to:

- complete end-of-period accounting procedures.
- correctly reconcile the bank statement.
- record depreciation and enter the adjusting entries required for accrual-basis accounting.
- record owner's equity transactions.

BUSN 87 Organizational Management and Leadership

Upon completion of this course, the student should be able to:

- diagnose causes of organizational problems.
- identify differences between leadership and management theories.
- align and contrast their own leadership skills with that of leaders in an organization.

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Chemistry

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

CHEM 1A General College Chemistry I

Upon completion of this course, the student should be able to:

- skillfully perform experimental measurements, techniques, and protocols, properly use standard laboratory instruments, and adhere to safe laboratory practices.

CHEM 1B General College Chemistry II

Upon completion of this course, the student should be able to:

- skillfully perform experimental measurements, techniques, and protocols, properly use standard laboratory instruments, and adhere to safe laboratory practices.

CHEM 12B Organic Chemistry II

Upon completion of this course, the student should be able to:

- skillfully perform experimental measurements, techniques, and protocols, properly use standard laboratory instruments, and adhere to safe laboratory practices.

CHEM 30A Introductory and Applied Chemistry I

Upon completion of this course, the student should be able to:

- define concentration units of solutions (e.g., molarity and % concentration) and use these definitions in problem solving.
- demonstrate proficiency in solving complex problems and conceptual understanding of content listed in the course outline as measured by the comprehensive final exam.
- skillfully perform experimental measurements, techniques, and protocols, properly use standard laboratory instruments, and adhere to safe laboratory practices.

CHEM 30B Introductory and Applied Chemistry II

Upon completion of this course, the student should be able to:

- skillfully perform experimental measurements, techniques, and protocols, properly use standard laboratory instruments, and adhere to safe laboratory practices.

CHEM 31 Introduction to College Chemistry

Upon completion of this course, the student should be able to:

- demonstrate proficiency in solving complex problems and conceptual understanding of content listed in the course outline as measured by the American Chemical Society 2006 California Chemistry Diagnostic Test.
- skillfully perform experimental measurements, techniques, and protocols, properly use standard laboratory instruments, and adhere to safe laboratory practices.

CSLOS

Communication Studies

Division: A&H (Arts & Humanities)

CSLOs

COMM C1000 Introduction to Public Speaking

Upon completion of this course, the student should be able to:

- deliver a speech with effective, content, organization, and delivery.

CMST 2 Oral Interpretation of Literature

Upon completion of this course, the student should be able to:

- compile a collection of literature from different genres that unite a central theme.
- perform a selection of literature aloud.

CMST 3 Group Communication

Upon completion of this course, the student should be able to:

- effectively communicate in a group performance to complete a task or goal.

CMST 10 Interpersonal Communication

Upon completion of this course, the student should be able to:

- identify and demonstrate necessary skills for application of interpersonal communication competence.
- identify and demonstrate necessary skills of comprehension of interpersonal communication competence.

CMST 46 Argumentation and Debate

Upon completion of this course, the student should be able to:

- critically analyze an argument.
- develop and deliver an argument.

CMST 48 Activities in Forensics

Upon completion of this course, the student should be able to:

- perform a platform speech in a competitive situation.
- perform an oral interpretation presentation in a competitive situation.

Computer Information Systems

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

CIS 11 Data Visualization Tools

Upon completion of this course, the student should be able to:

- present data with visual representations for your target audience, task, and data.

CIS 43 Professional Communication

Upon completion of this course, the student should be able to:

- analyze a business situation and select an appropriate approach to respond to it; use principles of routine and informative writing to create an appropriate response; apply standard business English including grammar, punctuation, and mechanics.
- demonstrate clear, compelling, analytical, and concise writing.

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CIS 50 Introduction to Computing Information Technology

Upon completion of this course, the student should be able to:

- demonstrate basic computing literacy by using office applications, the Internet and computer-based tutorials.

CIS 54 MS Excel Essentials

Upon completion of this course, the student should be able to:

- analyze a business problem and apply appropriate Excel formulas, functions, and features to develop a solution.

CIS 55 Integrating Office Applications

Upon completion of this course, the student should be able to:

- construct projects efficiently generating solutions using various workplace computer programs.
- use Object Linking and Embedding (OLE), to create integrated Office documents.

CIS 59C Web Programming - JavaScript

Upon completion of this course, the student should be able to:

- create code using fundamental JavaScript syntax, work with the DOM, develop and debug across multiple browsers as well as take advantage of the available JavaScript libraries and Ajax.

CIS 62 Project Management

Upon completion of this course, the student should be able to:

- produce a project plan to ensure successful delivery and stakeholder satisfaction.

CIS 66 Networking Fundamentals

Upon completion of this course, the student should be able to:

- install, configure, secure, and troubleshoot home or business networks.

CIS 71A Keyboarding (The Alphabet)

Upon completion of this course, the student should be able to:

- demonstrate proficiency of 30 words per minute on a 1-minute write with 1 or fewer errors.

CIS 71B Keyboard (Numbers and Symbols)

Upon completion of this course, the student should be able to:

- demonstrate accurate keyboarding input for all keys on the keyboard at the net words per minute (adjusted for errors) rate of 22 wpm or better, apply typing technique to avoid muscle strain or injury, and demonstrate proofreading skill.

CIS 71C Skills Improvement

Upon completion of this course, the student should be able to:

- demonstrate accurate keyboarding input at the net words per minute rate that show improvement over the student's own initial benchmark keyboarding skill of 10 or more words per minute on 5 minute timed writings.

CIS 74 Administrative Office Professional

Upon completion of this course, the student should be able to:

- describe the characteristics and personal qualities that are important for administrative professionals and the importance of ethics, customer service, and teamwork in the workplace.
- show mastery of office principles and procedures including the ability to produce correctly formatted business documents, manage business records, and appropriately use email and the Internet in the workplace.

CIS 79 Medical Office Procedures

Upon completion of this course, the student should be able to:

- show a mastery of medical office principles and procedures to include the importance of medical ethics in application of professional office behavior, telecommunications, scheduling appointments, office equipment, medical documents and word processing, managing medical records, banking, payroll, expense reports, petty cash,

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billing, recordkeeping, postal services, health insurance, coding, and utilizing the Internet for online financial services and resources.

CIS 81A Introduction to Cloud Computing

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CIS 88A Introduction to Microsoft Word

Upon completion of this course, the student should be able to:

- create, save, retrieve, edit and print documents in correct business formats.

CIS 88B Adv Microsoft Word

Upon completion of this course, the student should be able to:

- produce complex business documents, create tables of contents and indexes, use Word's collaboration features to share documents, and integrate data from Excel and other programs.

CIS 89A Desktop Presentation

Upon completion of this course, the student should be able to:

- design, create, and view a slide show presentation.

CIS 9002 Introduction to Database Management

Upon completion of this course, the student should be able to:

- write SQL SELECT statements that display data from single or multiple tables.

Computer Networking Technology

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

CNT 43 Professional Communications

Upon completion of this course, the student should be able to:

- analyze a business situation and select an appropriate approach to respond to it; use principles of routine and informative writing to create an appropriate response; apply standard business English including grammar, punctuation, and mechanics.
- demonstrate clear, compelling, analytical, and concise writing.

CNT 51 CompTIA's A+ Certification Computer Technician

Upon completion of this course, the student should be able to:

- install, configure, and troubleshoot operating systems and applications.
- install, configure, secure, and troubleshoot PC/Networking/Mobile devices.

CNT 52 Networking Fundamentals

Upon completion of this course, the student should be able to:

- install, configure, secure, and troubleshoot home or business networks.

CNT 55 MCSA I Windows Server Installation, Storage, and Compute

Upon completion of this course, the student should be able to:

- install, configure, secure, and troubleshoot Windows server in a domain environment.

CNT 56 Networking with Windows Server

Upon completion of this course, the student should be able to:

- install, configure, secure, and troubleshoot IP Services in a Windows server domain environment.

CSLOS

CNT 69 Network Security; CompTIA Security + Certification

Upon completion of this course, the student should be able to:

- evaluate network security risks and responses.

CNT 7285 Cloud Infrastructure: CompTIA Cloud+ Certification

Upon completion of this course, the student should be able to:

- identify and differentiate various infrastructure components of classic and virtualized data center.

CNT 7401 Red Hat Linux Administration I

Upon completion of this course, the student should be able to:

- apply basic shell programming, including text manipulations, file I/O, and typical Linux/UNIX utility programs.
- create Linux desktop installation specifications.
- develop detailed design specifications for a substantive application, including major subsystems and interfaces.

CNT 7501 Ethical Hacking

Upon completion of this course, the student should be able to:

- report network security analysis observations.

CNT 8001 Cisco CCNA1/3 Introduction to Networks (ITN)

Upon completion of this course, the student should be able to:

- build a simple Ethernet network using routers and switches.

CNT 8003 Cisco CCNA3/3 Enterprise Networking, Security, and Automation v7.0 (ENSA)

Upon completion of this course, the student should be able to:

- design and secure enterprise networks.
- operate and troubleshoot enterprise networks.
- use wide area network (WAN) technologies, quality of service (QoS) mechanisms, and software-defined networking (SDN) concepts.

Computer Science

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

CS 1 Computing Fundamentals I

Upon completion of this course, the student should be able to:

- develop a C++ program that demonstrates fundamental programming syntax and utilizes control structures such as loops, if, and switch statements.

CS 2 Computing Fundamentals II

Upon completion of this course, the student should be able to:

- design and implement a programmer-defined class using encapsulation and inheritance in C++.
- develop a C++ program that utilizes programmer-defined overloaded functions, overloaded operators, and friend functions.

CS 5 Introduction to Machine Learning

No CSLOs

CSLOS

CS 7 Introduction to Computer Programming Concepts

Upon completion of this course, the student should be able to:

- explain and implement programmer-defined functions in Python.

CS 17 Discrete Mathematical Structures

Upon completion of this course, the student should be able to:

- determine whether a relation is an equivalence relation.
- create an undirected graph that represents the network of objects in a set and find a minimum spanning tree for the graph.
- use mathematical reasoning and counting techniques to correctly enumerate the number of ways in which a specified event can occur.
- write a coherent formal proof using mathematical induction.

CS 20 Advanced Programming with Data Structures/C++

Upon completion of this course, the student should be able to:

- demonstrate the use of fundamental syntax and control structures - including variables, arithmetic statements, if statements and loops.
- implement programs using linked lists, stacks, queues and binary trees, including implementations using the Standard Template Library.
- interpret and implement code using typical forms of recursion.

CS 21 Computer Organization and Assembly Language Programming

Upon completion of this course, the student should be able to:

- implement the assembly equivalent of while loops, for loops and switch statements.
- interpret and apply the machine representation of integers, characters, strings and floating point (e.g IEEE format) numbers.

CS 41 Red Hat Linux Administration I

Upon completion of this course, the student should be able to:

- apply basic shell programming, including text manipulations, file I/O, and typical Linux/UNIX utility programs.
- create Linux desktop installation specifications.
- develop detailed design specifications for a substantive application, including major subsystems and interfaces.

CS 43 Professional Communications

Upon completion of this course, the student should be able to:

- analyze a business situation and select an appropriate approach to respond to it; use principles of routine and informative writing to create an appropriate response; apply standard business English including grammar, punctuation, and mechanics.
- demonstrate clear, compelling, analytical, and concise writing.

Dance

Division: A&H (Arts & Humanities)

CSLOs

DANC 2A Jazz Dance Fundamentals/Beginning

Upon completion of this course, the student should be able to:

- Critique jazz dance performances in terms of the intent, success of the choreographer, technique of the dancers, and incorporation of the elements of dance.
- Execute movement reflecting the desired timing and musicality at an introductory level.
- Perform dance technique specific to jazz dance at an introductory level.

CSLOS

DANC 2B Jazz Dance Beginning/Intermediate

Upon completion of this course, the student should be able to:

- critique jazz dance performances in terms of the intent, success of the choreographer, technique of the dancers, and incorporation of the elements of dance.
- execute movement reflecting the desired timing and musicality at an intermediate level.
- perform dance technique specific to jazz dance at an intermediate level.

DANC 4A Modern/Contemporary Dance A

Upon completion of this course, the student should be able to:

- critique modern dance performances in terms of the intent, success of the choreographer, technique of the dancers, and incorporation of the elements of dance.
- execute movement reflecting the desired timing and musicality at an introductory level.
- perform dance technique specific to modern dance at an introductory level.

DANC 4B Modern/Contemporary Dance B

Upon completion of this course, the student should be able to:

- critique modern dance performances in terms of the intent, success of the choreographer, technique of the dancers, and incorporation of the elements of dance.
- execute movement reflecting the desired timing and musicality at an intermediate level.
- perform dance technique specific to modern dance at an intermediate level.

Early Care and Education

Division: BSSL (Business, Social Science, and Learning Resources)

CSLOs

ECE 10 Introduction to Education

Upon completion of this course, the student should be able to:

- articulate a personal philosophy of education.
- explain the differences between historic and current education theories, issues, challenges, philosophies and settings.
- describe the role of the early elementary school educator, including ethical conduct and professional pathways.
- assess the quality in pre-K and elementary education related to environments, curriculum, and teaching strategies and serving diverse students.
- compare and contrast CA Preschool Learning Foundations, CA learning standards and guidelines and CA teaching standards and performance expectations.

ECE 40 Social and Emotional Foundations for Early Learning

Upon completion of this course, the student should be able to:

- identify personal strengths and the professional role in supporting the positive development of children's social and emotional well-being.

ECE 50 Early Childhood Principles and Practices

Upon completion of this course, the student should be able to:

- compare and contrast historical and current early childhood education perspectives, theories, and program types and philosophies.
- describe the role of the early childhood educator, including ethical conduct and professional pathways.
- examine a variety of observation, reflection, guidance and interaction strategies to increase children's social competence and promote a caring classroom community.
- identify the underlying theoretical perspective in forming a professional philosophy.

CSLOS

- identify quality in early education programs related to environment, curriculum, interactions and teaching strategies.

ECE 54 Child Health, Safety and Nutrition

Upon completion of this course, the student should be able to:

- assess strategies to maximize the mental and physical health of children and adults in accordance with culturally, linguistic and developmentally sound practice.
- identify health, safety and environmental risks in children's programs.

ECE 56 Child Growth and Development

Upon completion of this course, the student should be able to:

- apply knowledge of development and major theoretical frameworks to child observations.
- describe development of children from conception through adolescence in the physical, social, emotional and cognitive domains.
- identify cultural, economic, political and historical contexts that impact children's development.

ECE 60 Introduction to the Young Child with Exceptional Needs

Upon completion of this course, the student should be able to:

- explain the terminology, systems, laws and services that addresses children with exceptionalities and recommend supports for the child and their family.
- use observation to integrate curriculum goals and objectives across developmental domains, content areas, and routines for children with special needs.

ECE 62 Child, Family and Community

Upon completion of this course, the student should be able to:

- apply understanding of the foundational role of primary relationships and cultural differences in childrearing practices to create a culturally and linguistically appropriate learning environment.
- assess how their own values, goals, family history and life experiences, impact their relationships with children and families.
- describe socialization of the child focusing on the interrelationship of family, school, community and society.
- identify the educational, cultural, linguistic, political, and socioeconomic impacts on children and families.
- describe strategies that empower families and encourage family involvement in their children's development and education.

ECE 63 Early Childhood Curriculum

Upon completion of this course, the student should be able to:

- design and implement developmentally appropriate inclusive curriculum based on observation and assessment of young children to support play and learning in all developmental domains.
- apply theories of children's learning and development to key curricular content areas, through documentation and evaluation of curriculum.
- use reflective practices to evaluate the effectiveness of early childhood curriculum, classrooms, and teaching strategies.

ECE 67 Infant and Toddler Development and Caregiving

Upon completion of this course, the student should be able to:

- articulate responsive, reciprocal and respectful caregiving.
- intentionally design inclusive, culturally and linguistically appropriate curriculum to promote positive development for all young children, based on child development, observation and reflection.
- synthesize child development research and theories; apply principles with consideration for children's varying characteristics, needs and the multiple interacting influences on children's development.

CSLOs

ECE 69 Child Study: Observation and Assessment

Upon completion of this course, the student should be able to:

- complete systematic observations and assessments using a variety of data collection methods to inform environment design, interactions, and curriculum.
- describe and evaluate the characteristics, strengths, and limitations of common assessment tools with all children's developmental, cultural, and linguistic characteristics.
- discuss the role of partnerships with families and other professionals in utilizing interpretations of observational and assessment data.

ECE 79 Teaching in Diverse Society

Upon completion of this course, the student should be able to:

- evaluate classroom environments, materials, and approaches through an anti-bias lens for developmental, cultural, and linguistic appropriateness.
- evaluate the impact of personal experiences, biases and social identity on teaching effectiveness.
- evaluate the relationship between one's own experiences and the development of personal bias.
- identify strategies to act upon issues of social injustice and bias that occur in classrooms.
- summarize the history and influence of systemic racism and privilege, as well as internalized privilege and oppression, on the current experiences of children and adults.

ECE 87 Quality Environments for Infants and Toddlers

Upon completion of this course, the student should be able to:

- demonstrate strategies to promote healthy relationships in the care and education of infants and toddlers.
- evaluate infant and toddler curriculum and environments based on observation, documentation and reflection.
- summarize the essential policies and practices of quality infant and toddler programs.

ECE 90 Practicum-Supervised Experience

Upon completion of this course, the student should be able to:

- critically assess one's own teaching experiences to reflect and guide practice.

Economics

Division: BSSL (Business, Social Science, and Learning Resources)

CSLOs

ECON 1 Principles of Microeconomics

Upon completion of this course, the student should be able to:

- define market and its failures and explain how market forces of supply and demand lead to efficient allocation of goods, services and factors of production.
- define opportunity cost and marginal analysis and explain how they relate to choices of individuals in the economy.
- define different market structures and explain how firms optimize their fiscal objectives in these markets.

ECON 2 Principles of Macroeconomics

Upon completion of this course, the student should be able to:

- define market and explain how market forces of supply and demand lead to efficient allocation of goods, services and factors of production.
- define key economic indicators, including GDP, CPI, and Unemployment Rate, and use these quantitative measures to analyze the economy.
- describe monetary and fiscal policies and explain how they affect short-term economic fluctuations.

CSLOS

ECON 10 General Economics

Upon completion of this course, the student should be able to:

- define market and explain how market forces of supply and demand lead to efficient allocation of goods, services and factors of production.
- define opportunity cost and marginal analysis and explain how they relate to choices of individuals in the economy.
- define key economic indicators, including GDP, CPI, and Unemployment Rate, and use these quantitative measures to analyze the economy.

Emergency Medical Services

Division: PATH (Public Safety, Adv. Manufacturing, Transportation, Health & Kinesiology)

CSLOs

EMS 11 Paramedic Theory 2

Upon completion of this course, the student should be able to:

- Formulate a differential diagnosis of the emergency syndromes when evaluating a pediatric patient with shortness of breath.
- Perform the correct emergency medical treatment for the condition observed when presented with a clinical condition identified by a 12-lead electrocardiogram.
- Read and interpret a 12-lead electrocardiogram in order to describe a syndrome under the umbrella of Acute Coronary Syndromes.

EMS 13 Paramedic Laboratory 2

Upon completion of this course, the student should be able to:

- Manage and treat a pediatric patient in cardiac arrest using the standards of the American Heart Association Pediatric Advanced Life Support protocols.
- Manage and treat an adult patient in cardiac arrest using the standards of the American Heart Association Advanced Cardiac Life Support protocols.
- Properly identify a simulated dynamic and static electrocardiographic rhythm on a 4-lead ECG monitor and treat the syndrome signified by the ECG tracing.

EMS 16 Paramedic Clinical Occupational Work Experience

Upon completion of this course, the student should be able to:

- administer prehospital medications to the patient via the intramuscular route, intravenous route, nebulized route, and subcutaneous route.
- deliver a patient care report to a physician, registered nurse, or paramedic that is accurate and describes the care delivered by the student.
- perform a physical examination on a live patient with their consent and identify immediate life-threatening conditions that need to be treated.

EMS 17 Paramedic Capstone Occupational Work Experience

Upon completion of this course, the student should be able to:

- manage an emergency in the out-of-hospital setting by directing the resources of the local fire department and support personnel from the ambulance provider.

EMS 20 Emergency Medical Technician

Upon completion of this course, the student should be able to:

- proficiency in the psychomotor skills required in their scope of practice.
- describe the function of the Emergency Medical System and its historical development.

CSLOS

- discuss the physiology and pathophysiology of emergent medical illnesses and traumatic injuries within their scope of practice.

EMS 30 Emergency Medical Responder

Upon completion of this course, the student should be able to:

- implement treatment at the scope of practice of Emergency Medical Responder.
- recognize emergency medical illnesses and traumatic injuries.

EMS 62 Basic Medical Terminology

Upon completion of this course, the student should be able to:

- break down complex medical terms into simple root words and infer larger meanings through knowledge of smaller component word parts.

EMS 70 CPR for Health Care Providers

Upon completion of this course, the student should be able to:

- perform the CPR skills required for a Health Care Provider according to the standards of the American Heart Association.

Engineering

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

ENGR 1 Introduction to Engineering

Upon completion of this course, the student should be able to:

- design and build a structure to solve an engineering design problem.
- identify and differentiate between the different engineering branches.
- use Microsoft Excel in engineering applications.

ENGR 23 Engineering Graphics

Upon completion of this course, the student should be able to:

- construct a solid model within CAD given only information found in orthographic projection.
- construct an assembly drawing in SolidWorks.
- create a drawing using several different geometric dimensions and tolerances.
- identify and draw the different types of sectional views.

ENGR 35 Statics

Upon completion of this course, the student should be able to:

- analyze 2D and 3D force systems acting on engineering structures in static equilibrium.
- construct a free-body diagram.
- create and analyze shear force and bending moment diagrams for beam loading.
- resolve a force vector into cartesian component form.

ENGR 37 Applied Statics and Materials

Upon completion of this course, the student should be able to:

- construct a free-body diagram.

ENGR 44 Intro to Circuit Analysis

Upon completion of this course, the student should be able to:

- analyze a 1st-order RL or RC electrical circuit.

CSLOS

- analyze a 2nd-order RLC electrical circuit.
- analyze electrical circuits using circuit simulation software.
- construct and analyze circuits on breadboards using standard electronic equipment.

ENGR 46 Materials of Engineering

Upon completion of this course, the student should be able to:

- identify and explain the five different classes of engineering materials.
- use appropriate terminology related to material properties.
- use standard materials testing equipment to determine material properties.

English

Division: A&H (Arts & Humanities)

CSLOs

ENGL C1000 Academic Reading and Writing (*Formerly ENG 1A*)

Upon completion of this course, the student should be able to:

- read analytically to understand and respond to diverse academic texts.
- compose thesis-driven academic writing that demonstrates analysis and synthesis of sources as appropriate to the rhetorical situation.
- demonstrate strategies for planning, outlining, drafting, revising, editing, and proofreading written work.
- identify the main ideas and supporting arguments of a college-level text.
- research a topic using credible sources and document sources in an academically responsible way.
- use effective and correct sentence structures to convey ideas.
- write an academic essay using textual evidence to support a thesis.

ENG 4 Critical Thinking and Writing about Literature

Upon completion of this course, the student should be able to:

- identify and evaluate implied arguments in college-level literary texts.
- assess the best use of language, style, and voice for a variety of writing assignments and rhetorical contexts.
- write a research paper using credible sources and correct documentation.
- write an academic essay synthesizing multiple texts and using logic to support a thesis.

ENGL C1001 Critical Thinking and Writing (*Formerly ENG 7*)

Upon completion of this course, the student should be able to:

- define, recognize, and utilize forms of critical reasoning, including deductive and inductive reasoning, in a variety of rhetorical contexts.
- reflect critically on one's own thought processes to identify and avoid cognitive biases and common fallacies of language and thought.
- employ critical reading and research strategies to locate and evaluate complex texts representative of diverse experiences, perspectives, and forms of authority.
- evaluate and document evidence to construct arguments in a variety of rhetorical situations, distinguishing knowledge from belief and fact from judgment.
- craft written arguments to respond appropriately to texts, with attention to intended audience, purpose, and social context, and revise for clarity, cogency, persuasiveness, and soundness.
- evaluate the logic and validity of a nonfiction college-level text's reasoning and support.
- use grammar, vocabulary, and style appropriate for academic essays.
- write a research paper using credible sources and correct documentation.
- write an academic essay synthesizing multiple texts and using logic to support a thesis.

CSLOS

ENG 12A Craft of Writing Fiction

Upon completion of this course, the student should be able to:

- write and revise a story or chapter demonstrating proficiency in the basic elements of fiction, i.e., character, plot, setting, point of view, and theme.

ENG 12B Craft of Writing Fiction: Intermediate

Upon completion of this course, the student should be able to:

- write and revise a story or chapter demonstrating command of the elements of fiction, i.e., character, plot, setting, point of view, tone, figures of speech, symbolism, and theme to create resonance and meaning.

ENG 12C Craft of Writing Fiction: Advanced

Upon completion of this course, the student should be able to:

- demonstrate advanced skills in description, dialogue, characterization, point of view control, plotting, and theme
- identify subtle elements of craft within published fiction and the resulting effects of those elements, such as the relationship between craft and emotional or intellectual resonance.

ENG 13A The Craft of Writing Poetry: Beginning

Upon completion of this course, the student should be able to:

- write poems in traditional and modern forms, demonstrating proficiency in techniques including image, metaphor, sound, and symbolism to develop ideas and create meaning.

ENG 13B The Craft of Writing Poetry: Intermediate

Upon completion of this course, the student should be able to:

- demonstrate knowledge of poetry publication markets and strategies.
- write poems in traditional and modern forms, demonstrating intermediate proficiency in techniques including image, metaphor, sound, and symbolism to develop ideas and create meaning.

ENG 19A Journal of Arts, Literature, and Academic Writing A

Upon completion of this course, the student should be able to:

- work with others to create a literary anthology, following a timeline for production, creating submission guidelines, soliciting submissions, assessing and selecting submissions, editing and formatting anthology content, and organizing an awards ceremony for contributors and contest winners.

ENG 19B Journal of Arts, Literature, and Academic Writing B

Upon completion of this course, the student should be able to:

- work with others to, create a literary anthology, following a timeline for production, creating submission guidelines, soliciting submissions, assessing and selecting submissions, editing and formatting anthology content, and organizing an awards ceremony for contributors and contest winners. At the B level of this course, increased proficiency is expected.

ENG 32 U.S. Women's Literature

Upon completion of this course, the student should be able to:

- analyze an author's use of literary techniques to develop a theme.
- recognize, appreciate, and analyze the impact of gender on individual expression.
- recognize, appreciate, and compare the similarities and differences between authors, characters, and self that stem from historical era and cultural tradition.

ENG 35 Modern American Literature

Upon completion of this course, the student should be able to:

- analyze, evaluate, and interpret how 20th century American literature creates and reflects an American identity.
- analyze an author's use of literary techniques to develop a theme.
- recognize, appreciate, and compare the similarities and differences between authors, characters, and self that stem from historical era and cultural tradition.

CSLOS

English as a Second Language

Division: A&H (Arts & Humanities)

CSLOs

ESL 24 Advanced Reading and Composition I

Upon completion of this course, the student should be able to:

- demonstrate a low-advanced ability to identify main ideas and supporting details in level appropriate texts.
- produce an essay of five to six paragraphs with a minimum of 500 words that demonstrates clear organization, logical development, and correct language use.

ESL 25 Advanced Reading and Composition II

Upon completion of this course, the student should be able to:

- demonstrate a high-advanced ability to identify main ideas and supporting details in level appropriate texts.
- write an essay of five to seven paragraphs that demonstrates clear organization, logical development, and correct language use.

ESL 26 Advanced Editing

Upon completion of this course, the student should be able to:

- distinguish the subject, verb, and object in each clause in compound, complex, compound complex sentence and identify errors.
- identify verbs as linking, intransitive, or transitive in all clauses in simple, compound, complex, and compound-complex sentences and identify errors.
- produce the verb forms (base, past, past participle, present participle) for the verbs on the list of most common 0-2000 words as well as select words from the academic word list and identify errors.
- select, use, and explain the correct verb tense (simple, progressive, perfect, and perfect progressive: present, past, and future) for the verbs on the list of most common 0-2000 word list as well as select verbs from the academic word list.

ESL 110 Beginning Vocabulary Skills for English Language Learners

Upon completion of this course, the student should be able to:

- correctly use common beginning- level abbreviations.
- correctly use common beginning- level collocations.
- correctly use common beginning-level stems and affixes.
- correctly use vocabulary from the 0-1000 most common word list.

ESL 113 Speaking and Listening Fluency for Academic and Professional Purposes

Upon completion of this course, the student should be able to:

- present a researched topic accurately, professionally and persuasively.
- understand main ideas and details in an oral presentation like an academic lecture or TED Talk.
- distinguish between fact, opinion, and inference in an oral presentation.

ESL 120A Intermediate Grammar for Reading and Writing

Upon completion of this course, the student should be able to:

- discuss aspects of English using standard grammar terminology, including the parts of speech, parts of a sentence (subject, verb, direct object, indirect object, gerund, infinitive, prepositional phrase, and noun phrase), modal, and simple, compound, and complex sentences.
- distinguish subjects, verbs, direct objects, prepositional phrases, gerund phrases, infinitive phrases, and infinitives of purpose in simple, compound and complex sentences with adverb clauses.
- produce the verb forms (base form, past form, past participle, and present participle) and verbs that are frequently followed by a gerund or an infinitive for the verbs on the 0-1000 word list and select verbs from the 1000-2000 word list.

CSLOS

- select and use the correct verb tense (simple present and past, present and past progressive, future and present perfect) for verbs on the list of the most common 0-1000 verbs and select verbs from the 1000-2000 word list, especially the irregular verbs.

ESL 120B High-Intermediate Grammar for Reading and Writing

Upon completion of this course, the student should be able to:

- use standard grammar terminology to analyze and discuss English in written discourse: parts of speech, parts of a sentence (subject, verb, direct object, indirect object, gerund, infinitive, prepositional phrase, and noun phrase), modal, and simple, compound, and complex sentences.
- distinguish subjects, verbs, direct objects, prepositional phrases, gerund phrases, infinitive phrases, and infinitives of purpose in simple, compound and complex sentences with adverb, adjective and noun clauses.
- produce the verb forms (base, past, past participle, and present participle) and verbs that are frequently followed by a gerund or an infinitive from the verbs on the list of most common 0-2000.
- select and use the correct verb tense (simple, progressive, perfect, and perfect progressive: present, past, future) for verbs on the list of the most common 0-2000 words, especially the irregular verbs.

ESL 121A Intermediate Reading and Writing

Upon completion of this course, the student should be able to:

- demonstrate a low-intermediate ability to identify main ideas and supporting details in level appropriate texts.
- produce an essay of three or more paragraphs that demonstrates level appropriate and coherent writing through organization, development and language use.

ESL 121B High-Intermediate Reading and Writing

Upon completion of this course, the student should be able to:

- demonstrate a high-beginning ability to identify main ideas and supporting details in level appropriate texts.
- produce an essay of four or more paragraphs that demonstrates level appropriate and coherent writing through organization, development and language use.

ESL 126 Intermediate Pronunciation and Fluency

Upon completion of this course, the student should be able to:

- apply grammar and pronunciation rules to produce correct simple, compound, and learned complex sentences with stress on content words rather than function words.
- give oral directions and instructions.
- pronounce learned vocabulary and idiomatic expressions understandably.
- take dictation of compound and complex sentences and questions with learned academic vocabulary.

ESL 130A Beginning Grammar for Reading and Writing

Upon completion of this course, the student should be able to:

- name the parts of speech, the parts of a basic sentence (subject, verb, object), types of sentences: simple and compound, and common phrases (noun phrase, prepositional phrase).
- distinguish subjects, verbs, objects, and prepositional phrases in simple sentences.
- produce the verb forms (base form, past form, past participle, and present participle) for the verbs on the list of most common 0-500 words.
- select the correct verb tense (simple present, simple past, present progressive and future) for the verbs on the list of the most common 0-500 word list, especially the irregular verbs.

ESL 130B High-Beginning Grammar for Reading and Writing

Upon completion of this course, the student should be able to:

- use standard grammar terms to identify the parts of speech, parts of a sentence (subject, verb, direct object, indirect object, gerund, infinitive, prepositional phrase, noun phrase) modal, and simple, compound, and complex sentences.
- distinguish subject, verb, objects, and phrases (noun, prepositional, gerund, and infinitive) in simple and compound sentences.
- produce the verb forms (base form, past form, past participle, and present participle) and verbs that are frequently followed by a gerund or an infinitive for the verbs on the list of most common 0-1000 words.

CSLOS

- select and use the correct verb tense (simple present, simple past, present progressive and future) for the verbs on the list of the most common 0-1000 words, especially the irregular verbs.

ESL 131A Beginning Reading and Writing

Upon completion of this course, the student should be able to:

- demonstrate a low-beginning ability to identify main ideas and supporting details in level appropriate texts.
- produce paragraphs of 8 -12 sentences that demonstrate level appropriate and coherent writing through organization, development and language use.

ESL 131B High-Beginning Reading and Writing

Upon completion of this course, the student should be able to:

- demonstrate a high-beginning ability to identify main ideas and supporting details in level appropriate texts.
- produce a paragraph of 12-15 sentences that demonstrate level appropriate and coherent writing through organization, development and language use.

ESL 136 Beginning Pronunciation and Fluency

Upon completion of this course, the student should be able to:

- correctly pronounce level-appropriate vocabulary and idiomatic expressions.
- identify and stress appropriate content word(s) in a sentence.
- distinguish sounds in minimal pairs.
- correctly identify and pronounce voiced and voiceless sounds.

Environmental Studies

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

EVST 5 Energy and Sustainability

Upon completion of this course, the student should be able to:

- evaluate energy efficiency in residential spaces and develop a plan to reduce energy use and cost.
- assess the efficacy of commercial methods of energy generation (e.g., fossil fuels, solar, wind) by analyzing economic factors, environmental effects, and scientific data.
- explain the practical meaning of sustainability in terms of climate change and environmental degradation on a planet with limited resources and a growing population.

Ethnic Studies

Division: BSSL (Business, Social Science, and Learning Resources)

CSLOs

ETHS 5 Psychology of Race and Identity

Upon completion of this course, the student should be able to:

- appraise one's own ethnic/cultural origins and one's biases towards certain groups.
- compare and contrast research biases in the study of individuals from diverse populations.
- compare and contrast the effects of prejudice, stereotyping, and discriminatory attitudes and behaviors upon majority and minority groups.
- describe skills that enhance cross-cultural communication, interactions, and relationships.

CSLOS

- describe stressors related to acculturation into a new society.
- explain how culture affects the conceptualization of mental health, symptomology and help seeking behaviors.

ETHS 6 Introduction to Race and Ethnicity

Upon completion of this course, the student should be able to:

- outline relevant sociological theories to accurately explain how race and ethnicity are socially constructed.
- analyze current or historical racial and ethnic group relations using sociological theory.
- conduct a research assignment using a multi-model sociological approach.
- produce an academic document that connects sociological research methods to sociological theory.

ETHS 10 African American Studies

Upon completion of this course, the student should be able to:

- identify major concepts and theories of ethnic studies.
- apply standpoints of African American communities to describe their lived experiences and struggles.
- critically analyze the intersection of race and ethnicity with other forms of social differences in African American communities.
- evaluate active engagement with anti-racist and anti-colonial social justice movements in African American communities.
- produce a document that analyzes the lived experiences and struggles of African American communities by applying major theories and concepts of ethnic studies.

ETHS 30 Introduction to Chicanx and Latinx Studies

Upon completion of this course, the student should be able to:

- identify major concepts and theories of ethnic studies.
- apply standpoints of Chicanx and Latinx American communities to describe their lived experiences and struggles.
- critically analyze the intersection of race and ethnicity with other forms of social differences in Chicanx and Latinx American communities.
- evaluate active engagement with anti-racist and anti-colonial social justice movements in Chicanx and Latinx American communities.
- produce a document that analyzes the lived experiences and struggles of Chicanx and Latinx American communities by applying major theories and concepts of ethnic studies

Fire Service Technology

Division: PATH (Public Safety, Adv. Manufacturing, Transportation, Health & Kinesiology)

CSLOs

FST 1 Fire Protection Organization

Upon completion of this course, the student should be able to:

- explain the educational requirements and duties of a firefighter.
- explain the purpose of the various Fire Protection agencies.
- identify and explain the use of common fire department apparatus and equipment.

FST 2 Principles of Fire and Emergency Services Safety and Survival

Upon completion of this course, the student should be able to:

- define the role of the National Fire Protection Association (NFPA) and the Occupational Safety and Health Administration's (OSHA) related to Firefighter Health and Safety mandates.
- identify the 16 Firefighter Life and Safety Initiatives and their benefits for preventing Firefighter deaths and injuries.
- identify the means of preventing firefighter's deaths and injuries through a wellness and health program.

CSLOS

FST 3 Fire Behavior and Combustion

Upon completion of this course, the student should be able to:

- analyze Physical Conditions which determine the states of matter and how they influence fire behavior.
- compare and contrast methods and techniques of fire extinguishment.
- define basic terms and concepts related to fire behavior and chemistry.

FST 4 Fire Prevention

Upon completion of this course, the student should be able to:

- define the national fire problem including causes, damages, and public and firefighter fatalities.
- explain the responsibilities and functions of the fire prevention bureau in relationship to the fire department organizational structure.
- identify local, state and federal fire prevention organizations and regulatory agencies.
- research the minimum professional qualifications at the state and national level for Fire Inspector and Fire Investigator.

FST 5 Fire Protection Systems

Upon completion of this course, the student should be able to:

- describe fire protection systems in various structures and the history of sprinkler ordinances and legislation.
- describe the components of a fire alarm system and different types of detectors and how they detect fire.
- explain the operation and application of portable fire extinguishing systems.
- identify the components of sprinkler, standpipe and foam systems.

FST 6 Building Construction for Fire Protection

Upon completion of this course, the student should be able to:

- analyze the hazards and tactical considerations associated with the various types of building construction.
- explain the different loads and stresses that are placed on a building and their interrelationships.
- identify major types of building construction.
- identify the indicators of potential structural failure as they relate to firefighter safety.

FST 7 Fire Service Conditioning & Physical Agility Development

Upon completion of this course, the student should be able to:

- explain the importance of warm-ups and downs.
- discuss the benefits of maintaining a regular exercise program.
- explore exercise programs for flexibility, strength, endurance and cardiovascular development.
- develop increased aerobic fitness, muscular strength and endurance, and improved agility
- improve recovery time after exercise.
- identify appropriate lifestyle modification techniques.
- develop elementary wellness practices: healthy nutrition, stress reduction and coping skills, and adequate rest.
- discuss the psychological affect of mental fatigue.
- perform proper lifting and carrying techniques with "Tools of the Trade"
- identify health risk factors.
- demonstrate proper cardio-respiratory control with use of an SCBA while under physical exertion.
- demonstrate appropriate techniques for "CPAT" and traditional "Physical Agility" testing requirements.

FST 12 LPC Regional FIRE Academy – Firefighter 1 and Firefighter 2

Upon completion of this course, the student should be able to:

- identify, respond to, and mitigate an incident involving fire inside a structure

FST 30 Basic Firefighter Skills and Update

Upon completion of this course, the student should be able to:

- demonstrate and show proficiency in the current Firefighter I curriculum skills.

CSLOS

FST 31 Intermediate Firefighter Skills and Update

Upon completion of this course, the student should be able to:

- explain and implement fire suppression techniques for various materials.

French

Division: A&H (Arts & Humanities)

CSLOs

FREN 1B Elementary French

Upon completion of this course, the student should be able to:

- communicate orally at the advanced-beginning level.
- comprehend spoken French at the advanced-beginning level.
- write at the advanced-beginning level.

Geography

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

GEOG 1 Introduction to Physical Geography

Upon completion of this course, the student should be able to:

- understand the difference between divergent, convergent and transform plate boundaries.
- understand the global wind patterns and how they form.
- understand the reasons why the seasons change.

GEOG 1L Introduction to Physical Geography Laboratory

Upon completion of this course, the student should be able to:

- diagram and identify (explain) earth / sun relations.
- identify major climate controls and be able to explain why certain climates are located where they are.
- locate plate boundaries based on the type of tectonic activity and be able to explain why they are located where they are.

GEOG 5 World Regional Geography

Upon completion of this course, the student should be able to:

- locate and label on a map different cities of the world as discussed in class.
- locate and label on a map different rivers and landforms of the world as discussed in class.
- locate and label on a map the different countries of the world as discussed in class.

GEOG 12 Geography of California

Upon completion of this course, the student should be able to:

- identify different California cities, rivers, landforms on a blank map.
- identify different canals in California and state if they are federal, state or privately controlled.
- identify the different climates that exist in California.

CSLOS

GEOG 15 Introduction to GIS

Upon completion of this course, the student should be able to:

- understand the core functionality of ArcGIS Pro software.
- implement basic GIS tasks as spatial analysis, set map projections, find data online, create spatial data, symbolize and label maps, classify data, map layout construction, navigate digital maps.

Geology

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

GEOL 1 Physical Geology

Upon completion of this course, the student should be able to:

- define and identify the geology of divergent, convergent and transform plate tectonic environments.
- identify and define the basic properties of minerals.
- identify and differentiate the basic ages of the Geologic Time Scale.

GEOL 1L Physical Geology Laboratory

Upon completion of this course, the student should be able to:

- evaluate and differentiate mineral samples.
- evaluate and differentiate rock samples.
- evaluate and interpret geologic diagrams encapsulating geologic histories.

GEOL 2 Historical Geology

No CSLOs

GEOL 12 Introduction to Oceanography

Upon completion of this course, the student should be able to:

- analyze, differentiate and/or identify the basic marine life habitats.
- define and identify the geology of divergent, convergent and transform plate tectonic environments.
- identify and differentiate basic marine geomorphologies (e.g., seamounts, guyots, continental shelf, submarine canyons, etc.)

GEOL 12L Introduction to Oceanography Lab

Upon completion of this course, the student should be able to:

- construct bathymetric contours.
- evaluate (test and identify) sea floor samples.
- interpret bathymetric maps.

Global Studies

Division: BSSL (Business, Social Science, and Learning Resources)

CSLOs

GS 2 Introduction to Global Studies

Upon completion of this course, the student should be able to:

CSLOS

- describe how global issues are often narrowly understood in terms of a nation's domestic interests but must also be understood transnationally.
- research and analyze the causes of a global issue, providing an assessment of the best ideas on how to solve it.

Graphic Design Digital Media

Division: A&H (Arts & Humanities)

CSLOs

GDDM 4 User Interface and User Experience Design

Upon completion of this course, the student should be able to:

- develop interfaces for various device types by following standard User Experience Design principles and techniques.
- discuss and apply basic design principles as they apply to multimedia.
- discuss and apply the basic principles of information architecture.
- generate documents related to User Experience Design such as wireframes and personas.

GDDM 10 3D Modeling and Animation

Upon completion of this course, the student should be able to:

- Explain the importance of 3D modeling and animation as a medium in historical and contemporary practices.
- Implement 3D workflow from design to final render.
- Incorporate elements of storytelling and character development into a scene.
- Apply traditional principles and body mechanics in animation.
- Incorporate related media skills relevant to animation such as camera operation, character/creature design, environmental layout, sound recording and editing, story boarding, script writing.
- Use 3D modeling software to create original artwork for animation.

GDDM 45A Digital Painting I

Upon completion of this course, the student should be able to:

- compare and contrast different available software and hardware tools for digital painting.
- compose paintings with the elements and principles of visual art and design.
- paint with a variety of techniques and software.
- proficient with digital painting software and techniques.

GDDM 45B Digital Painting II

Upon completion of this course, the student should be able to:

- apply principles of color theory and practical color mixing (accurately depict the effects of color temperature on local colors, effects of atmospheric perspective, effects of light and shadow).
- create images demonstrating dynamic composition.
- create images that effectively communicate elements of storytelling in the image.
- draw and paint from reference images and from imagination using digital tools.

GDDM 52 Introduction to Typography

Upon completion of this course, the student should be able to:

- describe how type is used in graphic design, describe the relationship between type and the visual message it conveys and manipulate type for effect (e.g., to create a mood, to make an impact).
- design effective page layouts using appropriate typesetting techniques such as typeface choice, size, spacing, line length, and page grid.
- identify and use terminology related to the anatomy of letters, and describe how these elements are used to create and measure typefaces as well as identify type by classification and their place in history.

CSLOS

- select typefaces appropriate to a project's design and communications goals and to use letterforms as design elements.

GDDM 53 Adobe Photoshop I

Upon completion of this course, the student should be able to:

- create photographic montages using Adobe Photoshop.
- use Photoshop tools to manipulate images for retouching, color correction, and basic adjustments.
- use various tools for creating Selections, Mask, and Alpha Channels to isolate and manipulate images.

GDDM 54 Adobe Illustrator I

Upon completion of this course, the student should be able to:

- create new Illustrator Documents efficiently and open existing Illustrator Documents for editing and modification: set-up/launch, retrieve, save for print and screen.
- demonstrate understanding of the Pen Tool, individual anchor points, and Bezier handles, and be able to manipulate artwork on a point-by-point level.
- use Illustrator at the most basic level to create illustrations and simple graphic designs.
- work in the Illustrator interface with facility.

GDDM 58 Photoshop II

Upon completion of this course, the student should be able to:

- apply design principles in relationship to digital image painting manipulation, illustration and other composition tasks.
- compose and manipulate a variety of images from various sources into photo-realistic composites.
- create accurate electronic files for delivery to screen (web, app development, multimedia) and print (prepress, photo prints).
- generate special effects in Photoshop using filters, adjustment layers, layer masks, and layer effects.

GDDM 59 Adobe Illustrator II

Upon completion of this course, the student should be able to:

- create artwork that is easy to revise and demonstrate the ability to modify by changing the color scheme, filters, and other appearance attributes.
- incorporate raster images into their work and be able to develop their artwork using both raster and vector art.
- set up a perspective grid using the perspective tools and apply the basic principals of linear perspective.

GDDM 60 Creative Portfolio Development & Self Promotion

Upon completion of this course, the student should be able to:

- make oral and visual presentations of their professional portfolios and self-promotional materials to industry standard.
- prepare a personal portfolio and related self-promotional materials to industry standards for several possible practical applications.
- prepare a personal résumé tailored to industry standards.
- strategize effective self-promotion of ideas and skills for employment in the visual communications world.

Health

Division: PATH (Public Safety, Adv. Manufacturing, Transportation, Health & Kinesiology)

CSLOs

HEA 1 Introduction to Personal Health

Upon completion of this course, the student should be able to:

- identify their modifiable and non-modifiable risk factors for personal health.

CSLOS

- locate health information related to their individual behavior change process and evaluate the credibility of those sources.
- integrate and apply scientific research into their individual behavior change process.
- feel empowered to implement positive health behaviors.

HEA 3 Women's Health

Upon completion of this course, the student should be able to:

- evaluate health-related messages about women in popular media sources.
- identify and discuss sexual rights issues as related to sexual health and responsible sexual behavior.
- identify the modifiable and non-modifiable risk factors for health.
- integrate scientific research into her or his behavior change process.
- locate credible health information.

HEA 7 Introduction to Public Health

Upon completion of this course, the student should be able to:

- discuss the multiple determinants of health.
- recognize the impact of policies, laws, and legislation on both individual and population health.
- recognize the importance of key events, studies, and milestones in the history and development of the field of public health.
- utilize credible sources of health data and information, and communicate that information to a wide range of audiences through an array of media.

HEA 11 Health and Social Justice

Upon completion of this course, the student should be able to:

- Discuss disparities in health outcomes in the United States.
- Recognize the impacts of the unequal distribution of power, wealth and education, as well as race, socioeconomic status, and gender on health outcomes.
- Utilize credible sources of health data and information, and communicate that information to a wide range of audiences through an array of media.

History

Division: BSSL (Business, Social Science, and Learning Resources)

CSLOs

HIST 2 Western Civilization since 1600

Upon completion of this course, the student should be able to:

- explain the major political, economic, social, and cultural developments in Western Civilization since 1600, their causes and effects, and their historical significance.
- explain the significance of major discoveries and developments in technology, science, art, architecture, and literature.
- identify and distinguish the physical and political geography of Western Civilization.
- interpret primary and secondary sources and to compose an argument which uses them, as appropriate, for support.

HIST 3 World History to 1500

Upon completion of this course, the student should be able to:

- explain political, economic, social, and cultural developments across natural, regional, and cultural boundaries before 1500.
- explain the historical developments and practices of major belief systems in the world before 1500.
- explain the impact humans had on the world's physical and natural environment before 1500.

CSLOs

- explain the major discoveries and developments in technology, science, art, architecture, and literature before 1500.
- interpret primary and secondary sources and to compose an argument which uses them, as appropriate, for support.

HIST 7 US History Through Reconstruction

Upon completion of this course, the student should be able to:

- explain the major social, cultural, economic, demographic, technological, and diplomatic developments in United States History through Reconstruction, their causes and effects, and their historical significance.
- explain the development of, and debates concerning, democracy and citizenship in the United States from its founding through Reconstruction.
- describe the origins, nature, development, and significance of slavery in the British colonies and the United States.
- describe the experiences of indigenous peoples of North America through Reconstruction.
- analyze and interpret primary and secondary sources.
- construct an argument using historical evidence.

HIST 8 US History Post-Reconstruction

Upon completion of this course, the student should be able to:

- explain the major social, cultural, economic, demographic, technological, and diplomatic developments in United States History since Reconstruction, their causes and effects, and their historical significance.
- explain the development of, and debates concerning, democracy and citizenship in the U.S. since Reconstruction.
- describe the major social movements in the U.S. since Reconstruction.
- explain the United States' changing role in the world since Reconstruction.
- analyze and interpret primary and secondary sources.
- construct an argument using historical evidence.

HIST 28 History of American West

Upon completion of this course, the student should be able to:

- explain the historical significance of geography and environment in the American West.
- explain the historical significance of the federal government in the American West.
- explain the history of the American West through analytical categories of race, class, gender, ethnicity, and nationality.
- explain the impact of western expansion on the economic, political, social, and cultural development of the United States.
- interpret primary and secondary sources and to compose an argument which uses them, as appropriate, for support.

HIST 32 U.S. Women's History

Upon completion of this course, the student should be able to:

- demonstrate skills in speaking and writing effectively while incorporating theoretical perspectives in Women's History and research methodology.
- explain the significant social, cultural, and economic developments and their impact upon women's lives.
- interpret primary and secondary sources.

Horticulture

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

HORT 53 Landscape and Vineyard Pest and Disease Management

Upon completion of this course, the student should be able to:

- accurately identify common insect, weed pests, and plant diseases.

CSLOs

- design an Integrated Pesticide Program for Landscapes or Vineyards.

HORT 56 Arboriculture/Urban Forestry

Upon completion of this course, the student should be able to:

- research a tree assessment/survey and extract the knowledge contained therein to make sound tree maintenance decisions.
- safely demonstrate the proper, safe use and application of tools and equipment used specifically for arboriculture.
- understand how good quality nursery trees are selected and trained.

HORT 63 Sustainable Landscape

Upon completion of this course, the student should be able to:

- demonstrate knowledge of design and construction principles employed in sustainable landscaping.
- demonstrate understanding of landscape ecosystems.
- understand and utilize sustainable maintenance procedures.

HORT 71 Fundamentals of Hydroponics and Aquaponics

Upon completion of this course, the student should be able to:

- design and construct a basic aquaponic/hydroponic system, understand basic chemistry and biology of closed aquatic ecological systems, and demonstrate knowledge of safety and hygiene in handling of food products.

HORT 73 Computer Aided Design

Upon completion of this course, the student should be able to:

- execute a conception plan into the computer program from drawings to full plans, including 3D visual prints and animation.
- use dimensions and measuring to achieve scales on computerized floor plans.
- successfully print full size scaled drawings as completed set of plans.

Humanities

Division: A&H (Arts & Humanities)

CSLOs

HUMN 2 Introduction to Film Studies

Upon completion of this course, the student should be able to:

- analyze films in terms of their formal elements, e.g. narrative structure, mise-en-scene, cinematography, editing, and sound.
- compare and contrast major film types and film genres.
- describe the evolution of cinema as an art form and a business, referencing the major film styles and industries in film history.

HUMN 3 Introduction to Humanities

Upon completion of this course, the student should be able to:

- explain how and why human beings creatively express themselves through the arts.
- express and explain their appreciation of works of visual art, music, literature, theater, and film.
- organize and evaluate works of art based on historical period and using the elements and principles of art studied in class.

HUMN 4 Global Cinemas

Upon completion of this course, the student should be able to:

- analyze films in terms of both formal aspects and narrative or thematic content.

CSLOS

- compare and contrast characteristics of major global film styles and traditions.
- identify major developments in global film history in terms of how they relate to important historical and cultural contexts.

HUMN 10 Nature and Culture

Upon completion of this course, the student should be able to:

- analyze the ways in which American writers, philosophers, visual artists, musicians, and filmmakers have explored and portrayed American identity throughout the nation's history.
- discuss how works of art from the United States reflect the values and meanings of the American cultural experience.
- evaluate the contributions made to American culture of various ethnic and culture groups.
- use the evaluative methods discussed in class to meaningfully organize, interpret, and evaluate specific works of art.

HUMN 12 Culture and the Arts II: The Modern World

Upon completion of this course, the student should be able to:

- discuss the impact of important Western and non-Western cultural and artistic developments on the global humanities.
- explain the approach of the Humanities and use it to analyze works of art from different artistic media in terms of both form and content.
- reconstruct a basic historical timeline of major artistic, cultural, religious, and philosophical movements from the Ancient World to the 15th century.

HUMN 28 World Mythology

Upon completion of this course, the student should be able to:

- analyze major texts of world mythology, both in terms of their insights and functions in the ancient world and in contemporary society.
- apply major theoretical approaches to mythology to interpret myths from world cultures.
- distinguish mythic sources in literature, music, and the visual arts.

Interior Design

Division: A&H (Arts & Humanities)

CSLOs

INTD 10 Introduction to Textiles

Upon completion of this course, the student should be able to:

- have learned what a trade showroom is, how to set up an account and utilize a showroom for material selections.
- have an understanding of how to work with clients to respond to their individual needs and requests beginning with a client profile.
- present a completed textile design that demonstrate an ability to search out unique and satisfying solutions and obtain the correct calculations for their design for individualized client goals within a budget.
- have an understanding about wear and use of textiles and the benefits of Performances textiles in order to advise clients appropriately.
- understand the principles relating to design, spaces and material selections.

INTD 35 Residential Space Planning

Upon completion of this course, the student should be able to:

- present accurately drawn floor plans and elevations with space planning criteria.
- understand how to present before and after space plan drawings to present to clients.
- have the ability to work with clients to respond to their individual needs using a client profile and draw a complete home space plan and present to the client the best space plan solution.

CSLOS

INTD 40 Computer Aided Design

Upon completion of this course, the student should be able to:

- execute a conception plan into the computer program from drawings to full plans, including 3D visual prints and animation.
- use dimensions and measuring to achieve scales on computerized floor plans.
- successfully print full size scaled drawings as completed set of plans.

INTD 47 Professional Practices

Upon completion of this course, the student should be able to:

- create strategic plans for operating a business using a contract and various business forms.
- have knowledge of methods of compensation, marketing, public relations, and advertising included in a business plan.
- have the opportunity to engage with a designer to learn more about the business of Interior Design.

Journalism and Media Studies

Division: A&H (Arts & Humanities)

CSLOs

JAMS 1 Introduction to Mass Communications

Upon completion of this course, the student should be able to:

- create a comparative analysis of how different media outlets cover a single news story.
- describe the history, social impact, economics, and regulation of Journalism and Media Studies.

JAMS 2 Introduction to Media

Upon completion of this course, the student should be able to:

- analyze the differences between new media technologies and traditional forms of mass communication, such as radio, television, and film.
- critically analyze the negative and positive impacts of technology on society.

JAMS 19A Journal of Arts, Literature, and Academic Writing A

Upon completion of this course, the student should be able to:

- work with others to create a literary anthology, following a timeline for production, creating submission guidelines, soliciting submissions, assessing and selecting submissions, editing and formatting anthology content, and organizing an awards ceremony for contributors and contest winners.

JAMS 19B Journal of Arts, Literature, and Academic Writing B

Upon completion of this course, the student should be able to:

- work with others to create a literary anthology, following a timeline for production, creating submission guidelines, soliciting submissions, assessing and selecting submissions, editing and formatting anthology content, and organizing an awards ceremony for contributors and contest winners. At the B level of this course, increased proficiency is expected.

JAMS 21A Express College Newspaper A

Upon completion of this course, the student should be able to:

- create The Express, demonstrating increasing understanding of use of headlines and text, architecture and design, content and organization, and elements that serve to establish a house style.

CSLOS

JAMS 21B Express College Newspaper B

Upon completion of this course, the student should be able to:

- critique The Express, demonstrating intermediate-level understanding of the standards of journalism, including effective use of journalistic writing style, visuals, design, layout, and editing.

JAMS 21C Express College Newspaper C

Upon completion of this course, the student should be able to:

- critique The Express, demonstrating intermediate-to-advanced understanding of the standards of journalism, including effective use of journalistic writing style, visuals, design, layout, and editing.

JAMS 21D Express College Newspaper D

Upon completion of this course, the student should be able to:

- critique The Express, demonstrating advanced understanding of the standards of journalism, including effective use of journalistic writing style, visuals, design, layout, and editing.

JAMS 22 Express Editorial Board

Upon completion of this course, the student should be able to:

- serve as a leader for the weekly college newspaper, The Express, recognizing, acquiring, producing, and distributing content; student will lead others in increased understanding of standards of journalism and design and increased understanding of online distribution.

JAMS 23 Digital Storytelling

Upon completion of this course, the student should be able to:

- Produce video that presents local news in a professional manner.

Kinesiology

Division: PATH (Public Safety, Adv. Manufacturing, Transportation, Health & Kinesiology)

CSLOs

KIN 6 Personal Trainer

Upon completion of this course, the student should be able to:

- design a safe and effective workout program.
- describe the role of a personal trainer in the scope of the allied health care profession.

KIN 16 The Successful Student Athlete

Upon completion of this course, the student should be able to:

- Demonstrate knowledge of CCCAA regulations for eligibility and show an understanding of NCAA regulations for transfer and immediate eligibility.

KIN 17 Introduction to Athletic Training and Sports Medicine

Upon completion of this course, the student should be able to:

- describe the components of taping applications for the purpose of joint stability and injury prevention.
- list the roles and responsibilities of a Certified Athletic Trainer.
- perform first aid and CPR with AED.

KIN 18A Athletic Training Practicum 1

Upon completion of this course, the student should be able to:

- demonstrate techniques in passive stretching.
- apply first aid and acute care for wounds and injuries.

CSLOS

- demonstrate appropriate taping techniques for joint stability and injury prevention.
- complete an injury evaluation.

KIN 18B Athletic Training Practicum 2

Upon completion of this course, the student should be able to:

- demonstrate proper organization and management of a clinical setting.
- apply therapeutic modalities.
- evaluate musculoskeletal injuries and perform orthopedic tests.
- demonstrate proper legal and ethical behaviors expected of clinical practitioners.

KIN 19 Care and Prevention of Athletic Injuries

Upon completion of this course, the student should be able to:

- evaluate and recognize injury conditions.
- describe methods for treating and rehabilitating athletic injuries.
- design a basic rehabilitation program.

KIN 24 Sport Psychology

Upon completion of this course, the student should be able to:

- describe the relationship between coach expectations and athlete performance.
- identify guidelines for coaches for building team cohesion.

KIN 30 Introduction to Kinesiology

Upon completion of this course, the student should be able to:

- identify a number of career options following a degree in kinesiology.
- identify programs of study within the field of Kinesiology.

KIN 32B Spring Intercollegiate Men's Basketball

Upon completion of this course, the student should be able to:

- diagram offensive sets that are utilized during the basketball season.
- demonstrate an understanding of the demands and/or requirements that are required for competitive athletic performance at the intercollegiate level.
- explain the strategies and tactics of the sport as it relates to certain opponents.
- physically demonstrate an understanding of offensive half-court basketball sets as they pertain to an intercollegiate basketball team.

KIN 38C Post Season Intercollegiate Men's Soccer

Upon completion of this course, the student should be able to:

- demonstrate effective defensive techniques.
- demonstrate effective offensive techniques.

KIN 40C Off Season Intercollegiate Women's Volleyball

Upon completion of this course, the student should be able to:

- effectively hit the ball in to certain parts of the volleyball court (deep line, tip short, angle).
- identify individual areas (technical or tactical) for improvement

KIN 48B Intercollegiate Athletics: Women's Soccer

Upon completion of this course, the student should be able to:

- Demonstrate an increase in fitness level.
- Understand and apply the laws of the game during an official soccer match.

KIN 48C Off Season Intercollegiate Women's Soccer

Upon completion of this course, the student should be able to:

- demonstrate effective defensive techniques.
- demonstrate effective offensive techniques.

CSLOS

KIN 50B Intercollegiate Swimming & Diving

Upon completion of this course, the student should be able to:

- demonstrate and apply etiquette and sportsmanship through intercollegiate competition.
- demonstrate the ability to compete and excel at the highest level of community college competition.
- demonstrate the ability to maintain good academic standing with a 2.0 GPA and 12 units.

KIN 61B Off Season Intercollegiate Water Polo

Upon completion of this course, the student should be able to:

- demonstrate five different styles of shooting the water polo ball: forehand, backhand, skip shot, sweep shot, and lob shot.
- explain the water polo position numbers for a standard offense and 6-on-5 offense.

KIN AR1 Archery 1 – Beginning Archery

Upon completion of this course, the student should be able to:

- demonstrate the steps of shooting.
- identify and name the parts of the recurve bow and arrow.

KIN BD1 Badminton 1

Upon completion of this course, the student should be able to:

- assess strategies to apply maximum movement pressure on your opponent(s).
- identify when and how to apply defensive tactics to limit your opponent's attacking angles.

KIN BD2 Badminton 2

Upon completion of this course, the student should be able to:

- evaluate when to defend (lift) and wait for a better counter-attacking opportunity.
- recognize when to apply an attacking doubles formation, and when to apply a defensive formation.

KIN BD3 Badminton 3

Upon completion of this course, the student should be able to:

- illustrate the block defense and when to employ this strategy in doubles play.
- select when to apply movement pressure and when to hit to the middle.

KIN BL1 Bowling 1

Upon completion of this course, the student should be able to:

- differentiate the four basic shots in bowling.
- display appropriate bowling etiquette.

KIN BL2 Bowling 2

Upon completion of this course, the student should be able to:

- reconstruct a brief history of bowling
- identify equipment and lane requirements for the sport of bowling
- develop a fitness level for the game of bowling
- demonstrate basic approaches, releases and rules for the game of bowling
- demonstrate the method of scoring
- demonstrate the etiquette to be observed in the game of bowling
- apply the concepts through actual competitive play

KIN BL3 Bowling 3

Upon completion of this course, the student should be able to:

- demonstrate the Four-Step Approach to bowling.

CSLOS

KIN BL4 Bowling 4

Upon completion of this course, the student should be able to:

- Identify advanced bowling equipment and aids for the game of bowling;
- develop fitness level for the game of bowling;
- demonstrate advanced approaches, releases and rules for the game of bowling;
- demonstrate the method of scoring;
- emanate the etiquette to be observed in the game of bowling;
- apply the concepts through competitive league play.

KIN FJW1 Fitness Jog Walk 1

Upon completion of this course, the student should be able to:

- compare and contrast various methods of evaluating exercise intensity.
- demonstrate an increase in their cardiorespiratory fitness.
- demonstrate safe walking posture, gait, and foot placement while walking at an easy pace.

KIN FJW2 Fitness Jog Walk 2

Upon completion of this course, the student should be able to:

- calculate the "Target Heart Rate Formula."
- demonstrate an increase in their cardiorespiratory fitness.
- demonstrate safe walking posture, gait, and foot placement while walking at a moderate pace.

KIN FJW3 Fitness Jog Walk 3

Upon completion of this course, the student should be able to:

- complete a training walk using accelerations every 100 yards.
- identify the nutritional needs for recreational or competitive events.
- calculate the "Target Heart Rate Formula."
- complete a mile distance while doing a combination of walking and jogging within 15 minutes.
- complete one mile walking in under 20 minutes.

KIN FJW4 Fitness Jog Walk 4

Upon completion of this course, the student should be able to:

- design an effective warm up and cool down.
- estimate their maximum heart rate and identify their target heart rate.
- walk and jog safely and effectively as a way to exercise and develop their overall aerobic fitness level.

KIN GBW1 Guts and Butts Workout 1

Upon completion of this course, the student should be able to:

- demonstrate an increase in their core and glute strength.
- demonstrate proper form during beginning level exercises that target the gluteal and abdominal musculature.
- identify the major muscle groups of the gluteal and abdominal musculature.

KIN GBW2 Guts and Butts Workout 2

Upon completion of this course, the student should be able to:

- demonstrate proper form doing during intermediate-level exercises that target the gluteal and abdominal musculature.
- identify exercises that target the gluteal and abdominal musculature.
- increase their core and glute strength

KIN GBW3 Guts and Butts Workout 3

Upon completion of this course, the student should be able to:

- demonstrate proper and safe form while doing intermediate/advanced strength training movements.
- identify the major muscle groups of the body.

CSLOS

KIN GBW4 Guts and Butts Workout 4

Upon completion of this course, the student should be able to:

- demonstrate proper form while performing advanced strength training movements.
- create an effective full body strength training workout utilizing the 5 main movement patterns.

KIN GF1 Golf 1

Upon completion of this course, the student should be able to:

- analyze the influence of alignment and grip on ball flight.
- distinguish between the overlapping, interlocking and ten-finger grips.

KIN GF2 Golf 2

Upon completion of this course, the student should be able to:

- identify the effects of a strong, weak and neutral grip.
- illustrate how a golfer creates lag in the golf swing.

KIN GF3 Golf 3

Upon completion of this course, the student should be able to:

- assess the significance of the hip pivot movement and its role in creating distance in golf ball flight.
- illustrate the appropriate sequence to start the downswing.

KIN GF4 Golf 4

Upon completion of this course, the student should be able to:

- sequence their down-swing by commencing with a rotation of the hips and torso, before exerting force with the shoulders, arms and hands.
- assess the significance of the hip pivot movement and its role in creating distance in golf ball flight.

KIN PF Personal Fitness

Upon completion of this course, the student should be able to:

- enable the student to calculate the "Target Heart Rate Formula."
- complete a mile distance while doing a combination of walking and jogging within 15 minutes.
- complete one mile walking in under 20 minutes.

KIN PIC1 Pickleball 1

Upon completion of this course, the student should be able to:

- demonstrate when and how to manipulate groundstrokes, execute volleys and disguise dinks.
- demonstrate knowledge of pickleball rules.
- apply Bandura's (1986) Self-Efficacy model to build confidence for pickleball.

KIN PIC2 Pickleball 2

Upon completion of this course, the student should be able to:

- demonstrate when and how to disguise drop shots, execute smashes and implement lob shots.
- demonstrate knowledge of when and how to utilize pickleball singles strategies.
- apply Dweck's Self Theory to pickleball performance.

KIN PIC3 Pickleball 3

Upon completion of this course, the student should be able to:

- demonstrate when and how to execute spin shots and disguise your service return.
- demonstrate knowledge of when and how to utilize pickleball doubles strategies.
- apply Attribution Theory to pickleball performance.

KIN PIC4 Pickleball 4

Upon completion of this course, the student should be able to:

- demonstrate when and how to execute punch volleys, block volleys and drop volleys.
- demonstrate knowledge of attacking strategies incorporating the counter-attack and when to reset.

CSLOS

- apply imagery/ visualization to enhance pickleball performance.

KIN PL1 Pilates 1

Upon completion of this course, the student should be able to:

- demonstrate correct alignment for Pilates mat work.
- demonstrate neutral spine, c-shape, and scoop.

KIN PL2 Pilates 2

Upon completion of this course, the student should be able to:

- apply knowledge of core stabilization during Pilates exercises.
- correctly utilize Pilates props.
- demonstrate an increase in core strength.

KIN SI1 Soccer Indoor 1

Upon completion of this course, the student should be able to:

- demonstrate beginning-level soccer skills.
- integrate the rules of the soccer during small and large sided scrimmages.
- recognize indoor soccer terminology.

KIN SI2 Soccer Indoor 2

Upon completion of this course, the student should be able to:

- demonstrate intermediate-level soccer skills.

KIN SWF1 Swimming for Fitness 1

Upon completion of this course, the student should be able to:

- illustrate a personalized training program based upon aquatic training principles.
- demonstrate improvement in a timed swim.

KIN SWF2 Swimming for Fitness 2

Upon completion of this course, the student should be able to:

- demonstrate a training methodology that will increase power and speed in swimming.
- demonstrate improvement in a timed sprint swim.

KIN SWF3 Swimming for Fitness 3

Upon completion of this course, the student should be able to:

- demonstrate an improvement in a timed 500 yard swim.
- demonstrate an improvement in a timed mid-distance swim.
- demonstrate threshold pace throughout a given set.

KIN SWF4 Swimming for Fitness 4

Upon completion of this course, the student should be able to:

- demonstrate improvement in a timed distance swim.
- demonstrate the benefit of interval training and pacing through demonstrated improvement in a timed 20 minute swim.
- identify the benefits of interval training and pacing as they relate to distance training.

KIN WT1 Weight Training 1

Upon completion of this course, the student should be able to:

- demonstrate proper form while performing beginning level weight training exercises.
- display appropriate gym etiquette.
- identify the major muscle groups utilized in weight training exercises.

CSLOS

KIN WT2 Weight Training 2

Upon completion of this course, the student should be able to:

- demonstrate an increase in muscular strength.
- demonstrate proper form while performing intermediate weight training exercises.
- identify which major muscle groups are activated during specific weight training exercises.

KIN WTW1 Women's Weight Training 1

Upon completion of this course, the student should be able to:

- demonstrate appropriate weight room etiquette.
- demonstrate proper form when executing beginning-level weight training exercises.
- express weight training's benefits and effect on long-term health.

KIN WTW2 Women's Weight Training 2

Upon completion of this course, the student should be able to:

- distinguish between cardio equipment and musculoskeletal equipment to develop overall body endurance.
- list 4 different circuits and the difference between each that is performed in class.

KIN YIN1 Yin Yoga 1

No CSLOs

KIN YO1 Yoga 1

Upon completion of this course, the student should be able to:

- demonstrate an increase in their flexibility.
- demonstrate proper alignment in beginning level asanas.
- utilize various breathing techniques used in a yoga practice.

KIN YO2 Yoga 2

Upon completion of this course, the student should be able to:

- demonstrate proper alignment in intermediate level asanas.
- describe the benefits of breathing techniques used in a yoga practice.
- identify the eight limbs of yoga.

KIN YO3 Yoga 3

Upon completion of this course, the student should be able to:

- create and demonstrate a logical flow of yoga poses.
- demonstrate intermediate/ advanced yoga poses with proper alignment and appropriate breathing technique.

KIN YO4 Yoga 4

Upon completion of this course, the student should be able to:

- describe the eight limbs of Yoga using proper Sanskrit terminology.
- demonstrate and name 2-4 intermediate/advanced yoga poses in both English and Sanskrit.

CSLOS

Lesbian, Gay, Bisexual, Transgender, and Queer Studies (LGBT)

Division: A&H (Arts & Humanities)

CSLOs

LGBT 1 Introduction to LGBTQ Studies

Upon completion of this course, the student should be able to:

- explain the social, economic, political, intellectual, and cultural contributions of LGBTQ+ people of the past and present.
- explain how sexual identity and gender identity combine with nationality, race and ethnicity, religion, social class, and physical ability to shape the experiences of LGBTQ+ individuals.
- synthesize the relationships between epistemological frameworks used in LGBTQ+ studies and those used in other areas (i.e. Queer Theory, Feminist Theory, and Critical Theory).
- compare and contrast the key methodologies utilized in LGBTQ+ studies.

Library Studies

Division: BSSL (Business, Social Science, and Learning Resources)

CSLOs

LIBR 7 The Open Web and Search Engines

Upon completion of this course, the student should be able to:

- construct a search statement using topic relevant vocabulary in order to search with maximum effectiveness.
- examine sources for characteristics that will impact its value as a research source; such as, currency, authorship, authority, relevance, bias, and purpose.
- formulate citations in the appropriate format and style.

Marketing

Division: BSSL (Business, Social Science, and Learning Resources)

CSLOs

MKTG 50 Introduction to Marketing

Upon completion of this course, the student should be able to:

- Upon completion of MKTG 50, the student will be able to categorize the four Ps of marketing.
- Upon completion of MKTG 50, the student will be able to communicate the marketing concept and how it applies in both for-profit and nonprofit organizations.
- Upon completion of MKTG 50, the student will be able to model consumer behavior in the consumer decision making process.

MKTG 56 Marketing Strategies

Upon completion of this course, the student should be able to:

- Upon completion of MKTG 56, the student will be able to apply customer service principles to retain and grow customer loyalty through recognized consistent systematic improvement processes and use of social media.
- Upon completion of MKTG 56, the student will be able to compare the tools and techniques used to create and enhance profitable customer service experiences in the traditional and digital sales environment.

CSLOS

- Upon completion of MKTG 56, the student will be able to create effective online marketing strategies and campaigns, and employ free web analytics tools to track and measure success.

Math

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

MATH 1 Calculus I

Upon completion of this course, the student should be able to:

- construct an optimization model and use it to find the desired quantity.
- evaluate and interpret a definite integral.
- find the roots of a function using Newton's method.
- find the volume of a solid of revolution using washers or shells.
- integrate a function involving a u-substitution.

MATH 2 Calculus II

Upon completion of this course, the student should be able to:

- determine an arc length using parametric equations.
- determine the interval of convergence for a power series.
- evaluate an integral using a power series representation.
- integrate a function using a partial fraction expansion.
- numerically evaluate an integral using Simpson's Rule and determine the error.

MATH 3 Multivariable Calculus

Upon completion of this course, the student should be able to:

- evaluate a surface integral.
- evaluate a surface integral for vector functions using parameterization of the surface or using the Divergence theorem.
- interpret directional derivatives, including the gradient.
- solve an optimization problem by using the method of LaGrange multipliers.

MATH 5 Ordinary Differential Equations

Upon completion of this course, the student should be able to:

- construct and interpret the solution of a mass-spring system.
- construct a model an RLC using differential equations.
- use a 4th order Runge-Kutta algorithm to solve an equation numerically.
- use the method of Laplace transforms to solve differential equation.

MATH 7 Elementary Linear Algebra

Upon completion of this course, the student should be able to:

- determine if a set is a subspace of a vector space.
- diagonalize a matrix.
- set up a system of Linear Equations to represent a network and then solve the system.
- use software to solve a least squares problem.

MATH 10 Discrete Mathematical Structures

Upon completion of this course, the student should be able to:

- create an undirected graph that represents the network of objects in a set and find a minimum spanning tree for the graph.
- determine whether a relation is an equivalence relation.

CSLOS

- use mathematical reasoning and counting techniques to correctly enumerate the number of ways in which a specified event can occur.
- write a coherent formal proof using mathematical induction.

MATH 21 Precalculus

Upon completion of this course, the student should be able to:

- graph and identify the main features of a precalculus level function without using a graphing utility.
- model a precalculus level application.
- define trigonometric functions in terms of a right triangle, using coordinates of a point and distance from the origin, and using the unit circle.
- solve a multi-step trigonometric equation.

MATH 27 Number Systems for Educators

No CSLOs

MATH 33 Finite Mathematics

Upon completion of this course, the student should be able to:

- find the probability of an event and explain the meaning of the value found.
- model an applied problem by writing a system of linear inequalities or equalities.
- solve a system of linear equations in matrix form by hand (without using a calculator).
- use the financial functions on a graphing calculator to answer questions about loans or annuities.
- write a system of linear equations and inequalities that represent the relationships between the quantities in a linear programming problem and represent the solution graphically and verbally.

MATH 34 Business Calculus

Upon completion of this course, the student should be able to:

- analyze problems involving limits and continuity.
- evaluate derivatives.
- evaluate indefinite and definite integrals.
- set up and solve applications of derivatives, including the use of appropriate technology.
- solve problems involving functions of two variables.

MATH 39 Trigonometry

Upon completion of this course, the student should be able to:

- define trigonometric functions in terms of the right triangle, using coordinates of a point and distance from the origin, and using the unit circle.
- identify and describe the period, amplitude and phase shift of a sine or cosine function.
- solve a trigonometric equation that does not involve any of the standard angles as solutions, making usage of a calculator necessary.
- solve a trigonometric equation using factoring and identities.
- solve an application problem using law of sines or law of cosines.

MATH 47 Mathematics for Liberal Arts

Upon completion of this course, the student should be able to:

- develop and use an appropriate model (linear or exponential) for a given problem.
- identify a set that can be represented as a union or intersection of two other sets and describe this set in the context of an applied problem.
- solve a financial problem involving amortization.
- translate a statement into symbolic logic notation.

MATH 66C Concurrent Support for Calculus I

Upon completion of this course, the student should be able to:

CSLOS

- develop study skills and life skills that will improve the likelihood of succeeding in their academic goals, such as identifying individual growth mindset and learning about brain research, personal time management, study skills, test taking and conquering math anxiety strategies, etc.
- identify challenging mathematics topics and be able to communicate in writing the correct strategies and processes for solving relevant mathematics problems.
- read mathematical writing with understanding and use this skill as preparation to solve relevant mathematics problems.
- utilize online and other technological resources effectively to enhance their understanding of a mathematics topic.

MATH 67 Math Jam for Calculus II

Upon completion of this course, the student should be able to:

- apply prerequisite mathematical topics at a higher level.
- develop study skills and life skills that will improve the student's likelihood of succeeding in his or her academic goals (examples of topics include brain research, identifying his/her individual growth mindset, personal time management, test taking and conquering math anxiety strategies, etc.).
- formulate short-term and long-term learning objectives based on their academic goal(s).
- identify skills needed to become a more productive, successful, and independent learner.

MATH 67C Concurrent Support for Calculus II

Upon completion of this course, the student should be able to:

- develop study skills and life skills that will improve the likelihood of succeeding in their academic goals, such as identifying individual growth mindset and learning about brain research, personal time management, study skills, test taking and conquering math anxiety strategies, etc.
- identify challenging mathematics topics and be able to communicate in writing the correct strategies and processes for solving relevant mathematics problems.
- read mathematical writing with understanding and use this skill as preparation to solve relevant mathematics problems.
- utilize online and other technological resources effectively to enhance their understanding of a mathematics topic.

MATH 100C Concurrent Support for SLAM Mathematics

Upon completion of this course, the student should be able to:

- develop study skills and life skills that will improve the likelihood of succeeding in their academic goals, such as identifying individual growth mindset and learning about brain research, personal time management, study skills, test taking and conquering math anxiety strategies, etc.
- identify challenging mathematics topics and be able to communicate in writing the correct strategies and processes for solving relevant mathematics problems.
- read mathematical writing with understanding and use this skill as preparation to solve relevant mathematics problems.
- utilize online and other technological resources effectively to enhance their understanding of a mathematics topic.

MATH 101C Concurrent Support for BSTEM Mathematics

Upon completion of this course, the student should be able to:

- develop study skills and life skills that will improve the likelihood of succeeding in their academic goals, such as identifying individual growth mindset and learning about brain research, personal time management, study skills, test taking and conquering math anxiety strategies, etc.
- identify challenging mathematics topics and be able to communicate in writing the correct strategies and processes for solving relevant mathematics problems.
- read mathematical writing with understanding and use this skill as preparation to solve relevant mathematics problems.
- utilize online and other technological resources effectively to enhance their understanding of a mathematics topic.

CSLOS

Mindfulness

Division: A&H (Arts & Humanities)

CSLOs

MIND 15 Introduction to Mindfulness

Upon completion of this course, the student should be able to:

- demonstrate the practical skills of mindfulness meditation including deepening concentration and building resilience.
- demonstrate competence in communicating about experiences in meditation and about one's own mindfulness practice.
- analyze and appraise contemporary theories and research about mindfulness practice.
- describe the historical significance of various ancient meditative traditions and their impact on current mindfulness and meditative practice

Music

Division: A&H (Arts & Humanities)

CSLOs

MUS 1 Introduction to Music

Upon completion of this course, the student should be able to:

- analyze particular musical works with regard to style and technical elements.
- outline the broad history of music in the Western European tradition, both sacred and secular.
- synthesize and integrate general musical analysis into short analytical papers about music.

MUS 3 World Music

Upon completion of this course, the student should be able to:

- compare and contrast a variety of world music genres.
- demonstrate basic knowledge of music from around the world through written assignments and exams.
- synthesize and integrate general musical analysis into short analytical papers about music from a variety of world cultures.

MUS 4 Jazz in American Culture

Upon completion of this course, the student should be able to:

- analyze particular musical works with regard to style, technical elements.
- compare the parallel political and social climate that has affected jazz's evolution.
- through informed listening and reading, students should be able to apply critical thinking and writing to distinguish the different styles of jazz and its most important pioneers and innovators.

MUS 5 American Cultures in Music

Upon completion of this course, the student should be able to:

- analyze and interpret particular musical works with regard to style and technical elements.
- distinguish and debate the contributions of the various cultures that make up America's popular music and its people.
- synthesize factual information and historical evidence through informed listening, analysis, form, and repertoire.

CSLOS

MUS 6 Basic Music Skills

Upon completion of this course, the student should be able to:

- construct major/minor scales and demonstrate a basic comprehension of key relationships.
- correctly notate basic rhythms, melodies, and harmonic progressions.
- develop a comprehension of typical music notation through harmonic and formal analysis of the literature.

MUS 8B Music Theory and Musicianship 2

Upon completion of this course, the student should be able to:

- analyze intermediate chord progressions using standard Roman Numeral analysis.
- construct three different original compositions using three different forms in four measure phrases.
- write progressions using four-part diatonic harmony.

MUS 10B Music Theory and Musicianship 4

Upon completion of this course, the student should be able to:

- demonstrate an advanced understanding of how music is constructed and performed in 20th and 21st Century Styles.
- demonstrate their musicianship abilities to perform harmonic dictation, melodic dictation, rhythmic dictation, and sight-singing.
- analyze works in a variety of 20th and 21st Century genres using advanced techniques such as arc diagrams, texture maps, and theme maps.

MUS 11 Commercial Music Combo

Upon completion of this course, the student should be able to:

- perform commercial music repertoire at an introductory level.
- transcribe and perform commercial music licks in all 12 keys.

MUS 13 History of Rock & Roll

Upon completion of this course, the student should be able to:

- articulate the influence of modern technology on musical instruments and recording techniques.
- differentiate between various styles of rock and popular music.
- synthesize factual information and historical evidence through informed listening, analysis, evaluation and discernment of musical elements, forms and repertoire.

MUS 15 Jazz Ensemble

Upon completion of this course, the student should be able to:

- to demonstrate an adherence to recognize standards of professionalism in a rehearsal setting.
- demonstrate the ability to play on pitch in a section and ensemble as directed by a conductor.
- perform stylistically appropriately to the period/style of the composition.

MUS 16 Philharmonic Orchestra

Upon completion of this course, the student should be able to:

- demonstrate an adherence to recognized standards of professionalism is a rehearsal setting.
- demonstrate the ability to play on pitch in a section and ensemble as directed by a conductor.
- perform stylistically appropriately to the period/style of the composition.

MUS 17A Jazz Combo 1

Upon completion of this course, the student should be able to:

- develop mastery of improvisation based on study of jazz masters.
- perform jazz repertoire at an introductory level.
- transcribe and perform basic musical licks in all 12 keys.

CSLOS

MUS 18A Jazz/Pop Piano 1

Upon completion of this course, the student should be able to:

- apply jazz/pop voicing and stylistic approaches to jazz/pop repertoire.
- improvise a basic piano solo over a simple chord progression.
- interpret and perform basic lead-sheets.

MUS 18B Jazz/Pop Piano 2

Upon completion of this course, the student should be able to:

- apply intermediate jazz/pop voicings and stylistic approaches to jazz/pop repertoire.
- demonstrate the ability to interpret and perform intermediate lead-sheets.
- improvise an intermediate piano solo over an intermediate chord progression.

MUS 19 Music Composition

Upon completion of this course, the student should be able to:

- analyze and integrate knowledge of contemporary classical repertoire into original compositions.
- compose music for a variety of ensembles using standard practice techniques.
- create professional scores and parts using standard music notation software.

MUS 21A Beginning Piano

Upon completion of this course, the student should be able to:

- demonstrate basic piano technique using proper hand position, posture, and fingering.
- practice course material effectively on their own.
- practice, perform, and memorize scales, chords, and simple harmonic progressions.

MUS 21B Intermediate Piano

Upon completion of this course, the student should be able to:

- apply intermediate music theory when performing scales, chords, and progressions.
- employ intermediate piano technique and incorporate it into daily practice.
- practice, master, and memorize intermediate repertoire in a variety of styles while displaying accurate rhythm, fingering, and expression.

MUS 23A Elementary Voice

Upon completion of this course, the student should be able to:

- demonstrate an acute awareness of diction, vowels, and pronunciation in English and Italian singing.
- demonstrate knowledge of the basic anatomy and physiology involved in tone production and the respiratory system and its contribution to singing.
- present a polished performance of two songs; these songs must be memorized and demonstrate an improvement in vocal technique (clarity of tone, resonance and breath support) as proscribed by the instructor.

MUS 23B Intermediate Voice

Upon completion of this course, the student should be able to:

- demonstrate advanced knowledge of the anatomy and physiology involved in tone production and the respiratory system and its contribution to singing.
- demonstrate an acute awareness of diction, vowels, pronunciation, and introductory IPA proficiency in multiple languages.
- present a polished performance of two songs; these songs must be memorized and demonstrate an improvement in vocal technique (clarity of tone, resonance and breath support) as proscribed by the instructor.

MUS 28 Keyboard Skills

Upon completion of this course, the student should be able to:

- to apply theory and technique to a variety of piano repertoire.
- perform all triads, and major and minor scales in all keys with appropriate technique.
- sight-read and perform intermediate piano excerpts.

CSLOS

MUS 34 Music in Film

Upon completion of this course, the student should be able to:

- distinguish the styles of prominent film music composers and their contributions to the field of film scoring.
- recognize significant trends in the history of American film scoring and their relationship to developments in American cinema, both technological and cultural.

MUS 36 Intermediate Music Technology

Upon completion of this course, the student should be able to:

- demonstrate advanced techniques using a Digital Audio Workstation with MIDI and live audio capability.
- explain and demonstrate advanced principles of sound and acoustics.
- present completed audio projects using recorded live audio with appropriate editing, mixing, and mastering in a variety of formats.

MUS 38 Applied Lessons

Upon completion of this course, the student should be able to:

- successfully demonstrate the Applied Lessons Requirements (organized by semester of study) as outlined by the music department faculty.
- complete successful music performances and final jury or recital demonstrating overall improvements and advancement in individual study.
- complete the required number of lessons, on-campus practice hours, musical exercises, and repertoire as assigned by the instructor.

MUS 41 Instrumental Chamber Music

Upon completion of this course, the student should be able to:

- adhere to recognized standards of professionalism in a rehearsal setting.
- perform a variety of chamber or orchestral repertoire.
- perform stylistically appropriately to the period/style of the composition.
- play with correct pitch, rhythm, and dynamics with other instrumentalists.

MUS 45 Chamber Choir

Upon completion of this course, the student should be able to:

- demonstrate appropriate stage appearance and overall ability through multiple performances of music in a variety of cultural styles.
- demonstrate improvements in advanced rhythms, intonation, overall musicianship, and ability to carry one's part singing within an ensemble.
- demonstrate successful ensemble methods, adhering to director's instructions.

MUS 46 Vocal Jazz Ensemble

Upon completion of this course, the student should be able to:

- demonstrate advanced overall musicianship and ability to carry one's part singing within an ensemble.
- demonstrate advanced understanding of the performance sound system, including safe set-up, take-down, and operation.
- demonstrate appropriate stage appearance and overall ability through multiple performances of music in a variety of cultural styles.
- perform intermediate solo improvisation using appropriate syllables and articulations.

MUS 48 Improvisation Lab

Upon completion of this course, the student should be able to:

- demonstrate facility and technique in performing improvisations in solo and ensemble contexts.
- perform, memorize, and interpret repertoire in a variety of styles.

MUS 145 Piano Technology 1

Upon completion of this course, the student should be able to:

- roughly tune a Vertical piano, bass and tenor section. Assiduous students, roughly a whole piano.

CSLOS

- perform some basic repairs of Vertical pianos.
- roughly voice a Vertical piano

MUS 146 Piano Technology 2

Upon completion of this course, the student should be able to:

- tune upright and grand pianos at an intermediate level using industry standard equipment.
- make intermediate repairs to upright and grand pianos.
- voice a piano at an intermediate level.

MUS 147 Piano Technology 3

Upon completion of this course, the student should be able to:

- tune upright and grand pianos at an intermediate level using industry standard equipment.
- make intermediate repairs to upright and grand pianos.
- voice a piano at an intermediate level.

Noncredit Automotive Technology

Division: PATH (Public Safety, Adv. Manufacturing, Transportation, Health & Kinesiology)

CSLOs

NAUT A6 Electrical/Electronic Systems

Upon completion of this course, the student should be able to:

- apply electrical precautions.
- obtain and interpret data related to the electrical system.

NAUT A7 Automotive Heating and Air Conditioning

Upon completion of this course, the student should be able to:

- apply HVAC safety precautions.
- read and interpret HVAC gauges.

NAUT A8 Engine Performance

Upon completion of this course, the student should be able to:

- apply emission safety precautions.
- read and interpret scanner data.

NAUT CA6 Concepts of Electrical/Electronic Systems

Upon completion of this course, the student should be able to:

- apply electrical precautions.
- obtain and interpret data related to the electrical system.

NAUT CA7 Concepts of Automotive Heating and Air Conditioning

Upon completion of this course, the student should be able to:

- apply HVAC safety precautions.
- read and interpret HVAC gauges.

NAUT CA8 Concepts of Engine Performance

Upon completion of this course, the student should be able to:

- apply emission safety precautions.

CSLOS

- read and interpret scanner data.

NAUT CINTR Concepts of Automotive Service and Introduction

Upon completion of this course, the student should be able to:

- recognize and apply shop safety precautions.
- perform an oil change with 100% accuracy.

NAUT INTR Automotive Service and Introduction

Upon completion of this course, the student should be able to:

- recognize and apply shop safety precautions.
- perform an oil change with 100% accuracy.

NAUT L1L2 Smog Level One and Level Two

Upon completion of this course, the student should be able to:

- perform an OIS test.
- obtain and interpret powertrain data.

NAUT LABA Automotive Lab

Upon completion of this course, the student should be able to:

- apply safety in all lab conditions.
- work autonomously in a shop environment.

Noncredit Aviation

Division: PATH (Public Safety, Adv. Manufacturing, Transportation, Health & Kinesiology)

CSLOs

NAVI 201 Orientation to Drones and Unoccupied Aerial Systems (UAS)

No CSLOs

NAVI 202A Drone Photography and Videography

No CSLOs

NAVI 202B Drone Mapping and Survey

No CSLOs

NAVI 203 FAA Remote Pilot Certificate Exam Preparation

No CSLOs

CSLOS

Noncredit Business

Division: BSSL (Business, Social Science, and Learning Resources)

CSLOs

NBUS 212 Developing Your Business Plan

Upon completion of this course, the student should be able to:

- prepare an outline of the elements in a business plan.
- identify and describe a business' target market.
- identify multiple forms of capital attainment for their new business venture.

NBUS 213 Legal Aspects of Small Business

Upon completion of this course, the student should be able to:

- identify and describe the legal forms of ownership, including their advantages and disadvantages.
- identify and describe legal risk issues that will affect a proposed business venture.
- explain the difference between intellectual property, copyright, patent, and trademarks.
- list at least five human resource laws or regulations that will impact a business.

NBUS 214 Success in the Gig Economy

Upon completion of this course, the student should be able to:

- explain the process of how to turn a problem-solving idea to a money-making opportunity.
- construct low-cost, low-resolution prototypes to advance a business idea.
- construct low-cost, low-resolution prototypes to advance a business idea.
- implement effective teamwork and leadership skills.

NBUS 215 Workforce Power Skills

Upon completion of this course, the student should be able to:

- when working with clients or customers, makes decisions based on client or customer needs and points of view, and ask how satisfied they are with the outcome.
- look at the bigger picture of the work situation when solving problems.
- share leadership by gathering ideas and using the skills of all team members.
- communicate clearly using verbal and nonverbal communication, as well attentive listening.

NBUS 216 Career Success Through Compassion

Upon completion of this course, the student should be able to:

- identify personal strengths and areas of improvement, along with goals and dreams.
- describe ways to block out negative influences, and focus on positive influences, to ensure career goals are attained.
- articulate methods to forgive and move on when a friend or coworker has caused harm or pain
- select trusted individuals to provide wise counsel and guidance to achieve career goals.
- work through obstacles, focusing on goals and milestones.
- use tools for emotional regulation so negative emotions don't negatively affect the workplace.

NBUS 233 Personal Financial Management and Planning

Upon completion of this course, the student should be able to:

- identify and categorize the financial statement elements associated with the balance sheet and income statement.
- compare the common types of consumer credits including credit cards and installment loans.
- develop a comprehensive personal financial plan.
- explain fundamental economic considerations that affect decision-making in personal finance.

CSLOS

Noncredit Computer Information Systems

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

NCIS 211 Google Career Certificates

Upon completion of this course, the student should be able to:

- assess their skills and interests for IT careers.
- prepare for a job interview.
- identify major IT related Google Career Certificates.

Noncredit ESL

Division: A&H (Arts & Humanities)

CSLOs

NESL 203 School Matters 1: Language Skills for Supporting Your Child's Learning

Upon completion of this course, the student should be able to:

- produce meaningful written communication for a K-12 teacher with effective grammar, spelling and vocabulary.
- understand main ideas and details in written correspondence from a K-12 classroom.
- use speaking and listening skills to have meaningful conversations with a K-12 teacher.

NESL 204 School Matters 2: Language Skills for Your Child's School Community

Upon completion of this course, the student should be able to:

- use listening and speaking skills to communicate clearly with K-12 office administrators.
- understand main ideas and details in a variety of texts from a K-12 school.
- research and analyze school resources and school engagement opportunities.

NESL 213 Speaking and Listening Fluency for Academic and Professional Purposes

Upon completion of this course, the student should be able to:

- present a researched topic accurately, professionally and persuasively.
- understand main ideas and details in an oral presentation like an academic lecture or TED Talk.
- distinguish between fact, opinion, and inference in an oral presentation.

NESL 220A Intermediate Grammar for Reading and Writing

Upon completion of this course, the student should be able to:

- discuss aspects of English using standard grammar terminology, including the parts of speech, parts of a sentence (subject, verb, direct object, indirect object, gerund, infinitive, prepositional phrase, and noun phrase), modal, and simple, compound, and complex sentences.
- distinguish subjects, verbs, direct objects, prepositional phrases, gerund phrases, infinitive phrases, and infinitives of purpose in simple, compound and complex sentences with adverb clauses.
- produce the verb forms (base form, past form, past participle, and present participle) and verbs that are frequently followed by a gerund or an infinitive for the verbs on the 0-1000 word list and select verbs from the 1000-2000 word list.
- select and use the correct verb tense (simple present and past, present and past progressive, future and present perfect) for verbs on the list of the most common 0-1000 verbs and select verbs from the 1000-2000 word list, especially the irregular verbs.

CSLOS

NESL 220B High-Intermediate Grammar for Reading and Writing

Upon completion of this course, the student should be able to:

- use standard grammar terminology to analyze and discuss English in written discourse: parts of speech, parts of a sentence (subject, verb, direct object, indirect object, gerund, infinitive, prepositional phrase, and noun phrase), modal, and simple, compound, and complex sentences.
- distinguish subjects, verbs, direct objects, prepositional phrases, gerund phrases, infinitive phrases, and infinitives of purpose in simple, compound and complex sentences with adverb, adjective and noun clauses.
- produce verb forms (base, past, past participle, and present participle) and verbs that are frequently followed by a gerund or an infinitive from the verbs on the list of most common 0-2000.
- select and use the correct verb tense (simple, progressive, perfect, and perfect progressive: present, past, future) for verbs on the list of the most common 0-2000 words, especially the irregular verbs.

NESL 221A Intermediate Reading and Writing

Upon completion of this course, the student should be able to:

- demonstrate a low-intermediate ability to identify main ideas and supporting details in level-appropriate texts.
- produce an essay of three or more paragraphs that demonstrates level-appropriate and coherent writing through organization, development, and language use.

NESL 221B High-Intermediate Reading and Writing

Upon completion of this course, the student should be able to:

- demonstrate a high-intermediate ability to identify main ideas and supporting details in level appropriate texts.
- produce an essay of four or more paragraphs that demonstrates level appropriate and coherent writing through organization, development and language use.

NESL 226 Intermediate Pronunciation and Fluency

Upon completion of this course, the student should be able to:

- apply grammar and pronunciation rules to produce correct simple, compound, and learned complex sentences with stress on content words rather than function words.
- give oral directions and instructions.
- pronounce learned vocabulary and idiomatic expressions understandably.
- dictation of compound and complex sentences and questions with learned academic vocabulary.

NESL 230A Beginning Grammar for Reading and Writing

Upon completion of this course, the student should be able to:

- name the parts of speech, the parts of a basic sentence (subject, verb, object), types of sentences: simple and compound, and common phrases (noun phrase, prepositional phrase).
- distinguish subjects, verbs, objects, and prepositional phrases in simple sentences.
- produce the verb forms (base form, past form, past participle, and present participle) for the verbs on the list of most common 0-500 words.
- select the correct verb tense (simple present, simple past, present progressive and future) for the verbs on the list of the most common 0-500 word list, especially the irregular verbs

NESL 230B High-Beginning Grammar for Reading and Writing

Upon completion of this course, the student should be able to:

- use standard grammar terms to identify the parts of speech, parts of a sentence (subject, verb, direct object, indirect object, gerund, infinitive, prepositional phrase, noun phrase) modal, and simple, compound, and complex sentences.
- distinguish subject, verb, objects, and phrases (noun, prepositional, gerund, and infinitive) in simple and compound sentences.
- produce the verb forms (base form, past form, past participle, and present participle) and verbs that are frequently followed by a gerund or an infinitive for the verbs on the list of most common 0-1000 words.
- select and use the correct verb tense (simple present, simple past, present progressive and future) for the verbs on the list of the most common 0-1000 words, especially the irregular verbs.

CSLOS

NESL 231A Beginning Reading and Writing

Upon completion of this course, the student should be able to:

- demonstrate a low-beginning ability to identify main ideas and supporting details in level appropriate texts.
- produce paragraphs of 8 -12 sentences that demonstrate level appropriate and coherent writing through organization, development and language use.

NESL 231B High-Beginning Reading and Writing

Upon completion of this course, the student should be able to:

- demonstrate a high-beginning ability to identify main ideas and supporting details in level appropriate texts.
- produce a paragraph of 12-15 sentences that demonstrate level appropriate and coherent writing through organization, development and language use.

NESL 236 Beginning Pronunciation and Fluency

Upon completion of this course, the student should be able to:

- correctly pronounce level-appropriate vocabulary and idiomatic expressions.
- identify and stress appropriate content word(s) in a sentence.
- distinguish sounds in minimal pairs.
- correctly identify and pronounce voiced and voiceless sounds.

Noncredit Kinesiology

Division: PATH (Public Safety, Adv. Manufacturing, Transportation, Health & Kinesiology)

CSLOs

NKIN SWOA Swimming for Older Adults

Upon completion of this course, the student should be able to:

- illustrate a personalized training program based upon aquatic training principles.
- demonstrate improvement in a timed swim.

Noncredit Math

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

NMAT 200C Concurrent Support for SLAM Mathematics

Upon completion of this course, the student should be able to:

- develop study skills and life skills that will improve the likelihood of succeeding in their academic goals, such as identifying individual growth mindset and learning about brain research, personal time management, study skills, test taking and conquering math anxiety strategies, etc.
- identify challenging mathematics topics and be able to communicate in writing the correct strategies and processes for solving relevant mathematics problems.
- read mathematical writing with understanding and use this skill as preparation to solve relevant mathematics problems.
- utilize online and other technological resources effectively to enhance their understanding of a mathematics topic.

CSLOS

NMAT 201C Concurrent Support for BSTEM Mathematics

Upon completion of this course, the student should be able to:

- develop study skills and life skills that will improve the likelihood of succeeding in their academic goals, such as identifying individual growth mindset and learning about brain research, personal time management, study skills, test taking and conquering math anxiety strategies, etc.
- identify challenging mathematics topics and be able to communicate in writing the correct strategies and processes for solving relevant mathematics problems.
- read mathematical writing with understanding and use this skill as preparation to solve relevant mathematics problems.
- utilize online and other technological resources effectively to enhance their understanding of a mathematics topic.

NMAT 202C Just in Time Tutoring for Mathematics

Upon completion of this course, the student should be able to:

- utilize online and other technological resources to enhance their understanding of a mathematics topic.

Noncredit Music

Division: A&H (Arts & Humanities)

CSLOs

NMUS 215 Jazz Band for Older Adults

Upon completion of this course, the student should be able to:

- demonstrate an adherence to recognize standards of professionalism in a rehearsal setting.
- demonstrate the ability to play on pitch in a section and ensemble as directed by a conductor.
- perform stylistically appropriately to the period/style of the composition.

NMUS 216 Orchestra for Older Adults

Upon completion of this course, the student should be able to:

- demonstrate an adherence to recognized standards of professionalism is a rehearsal setting.
- demonstrate the ability to play on pitch in a section and ensemble as directed by a conductor.
- perform stylistically appropriately to the period/style of the composition.

NMUS 245 Chamber Choir Older Adults

Upon completion of this course, the student should be able to:

- demonstrate appropriate stage appearance and overall ability through multiple performances of music in a variety of cultural styles.
- demonstrate improvements in advanced rhythms, intonation, overall musicianship, and ability to carry one's part singing within an ensemble.
- demonstrate successful ensemble methods, adhering to director's instructions.

NMUS 246 Vocal Jazz for Older Adults

Upon completion of this course, the student should be able to:

- Demonstrate overall musicianship and ability to carry one's part singing within an ensemble.
- Demonstrate understanding of the performance sound system, including safe set-up, take-down, and operation.
- Demonstrate appropriate stage appearance and overall ability through multiple performances of music in a variety of cultural styles.
- Perform solo improvisation using appropriate syllables and articulations.

CSLOS

Nutrition

Division: PATH (Public Safety, Adv. Manufacturing, Transportation, Health & Kinesiology)

CSLOs

NTRN 1 Introduction to Nutrition Science

Upon completion of this course, the student should be able to:

- analyze and critically assess the reliability and credibility of nutrition information and dietary advice, services and products.
- analyze assigned nutrient intake compared to standard recommendations and make suggestions for improvement/maintenance of intake.
- identify the key dietary risk factors influencing the development of chronic diseases in the United States.
- utilize the information presented on a nutrition facts label to assess the quality of a food item and to make informed choices regarding food products.

NTRN 5 Sports Nutrition

Upon completion of this course, the student should be able to:

- communicate nutrition information using credible resources.
- analyze and evaluate dietary intake relative to government guidelines and recommendations for athletes.
- describe the basic principles of nutrition as they relate to sports performance.

Occupational Safety and Health

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

OSH 62 Physical Hazards

Upon completion of this course, the student should be able to:

- describe the skills, knowledge and abilities needed to successfully perform the roll of a safety specialist.
- discuss various methods available to the safety specialist to foster a safe and healthful work environment.
- explain the concept of acceptable risk levels as they relate to occupational safety and health requirements.
- recognize hazards commonly found in the workplace and recommend appropriate controls.

Philosophy

Division: A&H (Arts & Humanities)

CSLOs

PHIL 1 God, Nature, Human Nature

Upon completion of this course, the student should be able to:

- effectively participate and express opinions in a group and whole-class setting in a way that is respectful and well thought-through.
- use philosophical methods to explain, apply and evaluate philosophical positions of their own and of significant historical figures.

CSLOS

PHIL 2 Ethics

Upon completion of this course, the student should be able to:

- apply diverse abstract ethical theories to evaluate contemporary moral challenges.
- effectively participate and express opinions in a group and whole-class setting in a way that is respectful and well-thought-through.

PHIL 3 Aesthetics

Upon completion of this course, the student should be able to:

- apply philosophical methods of artistic analysis to specific works of art.
- effectively participate and express opinions in a group and whole-class setting in a way that is respectful and well-thought-through

PHIL 6 Introduction to Logic

Upon completion of this course, the student should be able to:

- apply the basic principles of causal and probabilistic reasoning.
- identify, describe and evaluate the informal logical fallacies.
- use natural deduction to evaluate the validity of arguments in propositional logic.

Photography

Division: A&H (Arts & Humanities)

CSLOs

PHTO 50 Introduction to Photography

Upon completion of this course, the student should be able to:

- Demonstrate the three basic elements of photography awareness (framing, lighting, background) while shooting a single subject (i.e. person, bike, tree) from a variety of angles, formats (vertical, horizontal) and approaches (long, medium, close shot).

PHTO 60 Intermediate Black and White Photography

Upon completion of this course, the student should be able to:

- demonstrate visual skills of black and white photography including composition and black and white aesthetics, and provide evidence of these skills in a portfolio of student work.

PHTO 64A Artificial Light Photography

Upon completion of this course, the student should be able to:

- produce portraits using various poses, light patterns and light ratios.

PHTO 66 Digital Imaging

Upon completion of this course, the student should be able to:

- apply intermediate level functions found in image editing and image processing software

CSLOS

Physics

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

PHYS 1A General Physics I

Upon completion of this course, the student should be able to:

- analyze physical situations quantitatively using Newtonian mechanics and conservation laws.
- design and conduct laboratory experiments, and analyze and interpret their data.
- effectively communicate the methods, analysis, results, and conclusions of their own scientific experiments.

PHYS 1B General Physics II

Upon completion of this course, the student should be able to:

- analyze physical situations quantitatively using principles of hydrodynamics, thermodynamics, harmonic motion, wave motion, and optics.
- design and conduct laboratory experiments, and analyze and interpret their data.
- effectively communicate the methods, analysis, results, and conclusions of their own scientific experiments.

PHYS 1C General Physics III

Upon completion of this course, the student should be able to:

- analyze physical situations quantitatively using principles of electricity and magnetism.
- design and conduct laboratory experiments, and analyze and interpret their data.
- effectively communicate the methods, analysis, results, and conclusions of their own scientific experiments.

PHYS 1D General Physics IV

Upon completion of this course, the student should be able to:

- analyze physical situations quantitatively using principles of relativity, quantum mechanics, nuclear physics, and particle physics.
- design and conduct laboratory experiments, and analyze and interpret their data.
- effectively communicate the methods, analysis, results, and conclusions of their own scientific experiments.

PHYS 2B Introduction to Physics II

Upon completion of this course, the student should be able to:

- analyze physical situations quantitatively using principles of electricity, magnetism, relativity, quantum mechanics, nuclear physics, and particle physics.
- design and conduct laboratory experiments, and analyze and interpret their data.
- effectively communicate the methods, analysis, results, and conclusions of their own scientific experiments.

Political Science

Division: BSSL (Business, Social Science, and Learning Resources)

CSLOs

POLS C1000 American Government & Politics (*Formerly POLI 7*)

Upon completion of this course, the student should be able to:

- analyze and critically assess various types of sources in the field of U.S. and California government and politics.
- demonstrate understanding and application of theories and concepts in U.S. and California politics.
- explain the civil liberties and civil rights of individuals as articulated in the U.S. Constitution and federal court decisions.

CSLOS

- explain the founding and development of the U.S. Constitution.
- identify and evaluate institutions, political processes, and political sciences concepts as they apply to the United States and California.
- research, synthesize, and argue a political thesis.

POLI 20 Comparative Government

Upon completion of this course, the student should be able to:

- assess and analyze contemporary issues in comparative government, institutions, and political problems drawn from selected national governments.
- assess and analyze relevant comparative theories and apply them to contemporary political phenomena.
- demonstrate an understanding of socioeconomic and/or political power disparities existing along the lines of identities such as race, class, gender, sexuality, legal status, and religion.
- demonstrate understanding and application of relevant comparative theories and concepts and apply them to contemporary political phenomena.

POLI 25 Introduction to Political Theory

Upon completion of this course, the student should be able to:

- demonstrate an understanding, ability to apply, and critically assess political theories relating to global political phenomena.
- demonstrate understanding application of various historical and contemporary social and political theorists, theories, concepts, and source types.
- research, synthesize, and argue a political thesis.
- have an understanding of socioeconomic and/or political power disparities existing along the lines of identities such as race, class, gender, sexuality, legal status, and religion.

Psychology

Division: BSSL (Business, Social Science, and Learning Resources)

CSLOs

PSYC C1000 Introduction to Psychology (Formerly PSYC 1)

Upon completion of this course, the student should be able to:

- explain the major concepts, theoretical perspectives, research methods, core empirical findings, and historic trends in psychology.
- discuss the impact of diversity on psychological research, theory, and application.
- apply theories, concepts, and findings in psychology for self-understanding, self-improvement, and lifelong learning.
- demonstrate critical thinking skills and information competence as applied to psychological topics, including discussion of ethical principles in research.

PSYC 3 Introduction to Social Psychology

Upon completion of this course, the student should be able to:

- explain the major concepts, theoretical perspectives, research methods, and empirical findings in social psychology.
- explain ways in which the influence of others, situational factors, and the surrounding culture affect human social behavior.
- analyze the ways in which social psychological principles and research apply to real world problems and issues.
- Upon completion of PSYC 3, the student will be able to apply theories, concepts and findings in social psychology for self-understanding, self-improvement, and lifelong learning.
- demonstrate critical thinking skills and information competence as applied to topics in social psychology.

CSLOS

PSYC 4 Brain, Mind, and Behavior

Upon completion of this course, the student should be able to:

- discuss how bio-psychological knowledge and principles can be used to address and better understand a wide range of behavioral and physiological problems.
- exemplify with concrete examples various brain-behavior relationships including ingestive behavior, sexual behavior, sleep, learning, memory, stress, drug dependence, and psychiatric disorders such as affective disorders and schizophrenia.
- explain scientific approaches and methodologies used for the study of brain-behavior relationships.
- explain the general anatomy and physiology of the nervous system and its relationship to behavior.

PSYC 6 Abnormal Psychology

Upon completion of this course, the student should be able to:

- compare and contrast the various theoretical perspectives on etiology and implications for treatment of various psychological disorders.
- define and use basic biological and psychological terminology to describe psychopathology and atypical behavior and mental processes.
- explain specific research methods and the ethical principles for the study and treatment of psychopathology.
- summarize the major disorder classifications and give concrete examples using appropriate diagnostic terminology (i.e., DSM).

PSYC 10 Psychology of Human Sexuality

Upon completion of this course, the student should be able to:

- compare the variations in sexuality found across social classes, ethnic groups, and other species.
- integrate the interaction of the biological bases of human sexuality with the psychological and historical influences in our society.
- trace the development of human sexuality from childhood to old age.
- understand and apply the different psychological theories to the study of human sexual behavior.

PSYC 12 Life-Span Psychology

Upon completion of this course, the student should be able to:

- analyze the ways in which psychological principles and research apply to real world problems and issues across the lifespan.
- demonstrate critical thinking skills and information competence as applied to topics in human development.
- demonstrate familiarity with the major concepts, theoretical perspectives, research methods, and empirical findings in human development.
- discuss biological, psychological, and sociocultural influences on lifespan development and the sources of developmental change.

PSYC 15 Abnormal Child Psychology

Upon completion of this course, the student should be able to:

- analyze how cultural contexts relate to the perception, diagnosis, and treatment of problems.
- compare and contrast the major psychological, biological, and sociocultural models of mental health and contemporary methods of treatment.
- describe contemporary methods used in the evaluation, assessment, and diagnosis of children and adolescents.
- explain the major mental health disorders, cognitive disorders, and learning disabilities of childhood and adolescence.

PSYC 21 Psychology of Race and Identity

Upon completion of this course, the student should be able to:

- appraise one's own ethnic/cultural origins and one's biases towards certain groups.
- compare and contrast research biases in the study of individuals from diverse populations.
- compare and contrast the effects of prejudice, stereotyping, and discriminatory attitudes and behaviors upon majority and minority groups.
- describe skills that enhance cross-cultural communication, interactions, and relationships.
- describe stressors related to acculturation into a new society.

CSLOS

- explain how culture affects the conceptualization of mental health, symptomology and help seeking behaviors.

PSYC 25 Research Methods

Upon completion of this course, the student should be able to:

- analyze the structure of scientific inquiry, including the history and philosophy of scientific investigation.
- apply psychological content for personal, professional and lifelong learning goals.
- conduct scientific research in psychology that includes reviewing scientific literature, analyzing data using descriptive and inferential statistics, interpreting results, and communicating the research in APA style.
- discuss the advantages and limitations of different research methods used in psychological research, and the importance of reliability and validity in determining research quality.
- discuss the importance of ethical principles in psychological research involving human and nonhuman animals and the historical events that led to these principles.

Psychology Counseling

Division: Student Services

CSLOs

PCN 10 Career and Educational Planning

Upon completion of this course, the student should be able to:

- define their top personal values that they want exemplified in their career choices and in life.
- demonstrate understanding of their personality strengths and synthesize this information towards their career decision making.
- set a short-term career or educational goal with specific steps to reach it.

PCN 13 Multicultural Issues in Contemporary America

Upon completion of this course, the student should be able to:

- to demonstrate an understanding of the historical and contemporary experiences of Americans who are in the minority (e.g., ethnic minorities, LGBT, disabled, etc.) and who have experienced marginalization.
- explain and analyze the difference between stereotyping, prejudice, discrimination, and institutional racism.
- demonstrate an understanding of the identity development theories and apply the course concepts to case studies.

PCN 18 University Transfer Planning

Upon completion of this course, the student should be able to:

- demonstrate the ability to articulate an individualized educational pathway toward achieving his/her transfer goal(s).
- demonstrate the ability to develop a Transfer Action Plan for an individual transfer goal.
- demonstrate the ability to identify a top barrier for transfer, and locate a campus resource to help overcome that barrier.

PCN 30 Student Success and the College Experience

Upon completion of this course, the student should be able to:

- evaluate their personal level of self-awareness, responsibility, and motivation to integrate alternate strategies that support their college success.
- implement and develop long-range educational goals by identifying appropriate courses.
- locate and access resources and services on campus that promote and improve their learning.

PCN 35 Drugs, Health, and Society

Upon completion of this course, the student should be able to:

- describe the neurological and physiological responses to various types of drugs.

CSLOS

- identify the factors associated with the use of specific substances of abuse.
- use drug laws to evaluate historical legal cases and situations related to substance abuse.

Religious Studies

Division: A&H (Arts & Humanities)

CSLOs

RELS 1 Religions of the World

Upon completion of this course, the student should be able to:

- compare and contrast the teaching of major religious figures.
- to identify the core beliefs of each major world religion.

RELS 3 Introduction to Women's Spirituality

Upon completion of this course, the student should be able to:

- analyze and discuss religious symbolism in the spiritual writings of women across cultures.
- articulate the various ways in which women have expressed and enacted their spiritual experiences, insights, and understandings.
- compare and contrast the spiritual values of women across multi-cultural and multireligious perspectives.
- demonstrate a sensitivity to the ways in which gender issues shape women's spirituality.

Sociology

Division: BSSL (Business, Social Science, and Learning Resources)

CSLOs

SOC 1 Principles of Sociology

Upon completion of this course, the student should be able to:

- outline major sociological theories.
- apply major sociological theories to world events.
- outline the symbiotic relationship between culture and social structure.
- explain how identities such as race, gender, sexuality, and class are socially constructed.
- produce a document that connects sociological research methods to sociological theory.

SOC 3 Introduction to Race and Ethnicity

Upon completion of this course, the student should be able to:

- outline relevant sociological theories to accurately explain how race and ethnicity are socially constructed.
- analyze current or historical racial and ethnic group relations using sociological theory.
- conduct a research assignment using a multi-model sociological approach.
- produce an academic document that connects sociological research methods to sociological theory.

SOC 6 Social Problems

Upon completion of this course, the student should be able to:

- outline multiple sociological theories.
- apply sociological theory to current social problems.
- produce an academic document which connects sociological research methods to sociological theory.

CSLOS

SOC 11

Upon completion of this course, the student should be able to:

- outline major sociological theories of sexuality
- apply major sociological theories of sexuality to current sexual practices
- produce a document which connects sociological research methods to sexuality theory

SOC 13 Research Methods

Upon completion of this course, the student should be able to:

- recognize the value of sociological research in understanding the social world.
- assess the effectiveness of the major types of sociological research methods.
- critique sociological research articles and research-based media claims.
- understand the ethical and political issues surrounding sociological research.
- design an appropriate analytical approach for testing a hypothesis.
- produce a research proposal incorporating appropriate methods to investigate a research question.

Spanish

Division: A&H (Arts & Humanities)

CSLOs

SPAN 1A Beginning Spanish

Upon completion of this course, the student should be able to:

- comprehend spoken Spanish at the beginning level.
- orally communicate at the beginning level.
- write at the beginning level.

SPAN 1B Elementary Spanish

Upon completion of this course, the student should be able to:

- comprehend spoken Spanish at the advanced beginning level.
- orally communicate at the advanced beginning level.
- write at the advanced beginning level.

SPAN 2A Intermediate Spanish I

Upon completion of this course, the student should be able to:

- comprehend spoken Spanish at the intermediate level.
- orally communicate at the intermediate level.
- write at the intermediate level.

SPAN 2B Intermediate Spanish II

Upon completion of this course, the student should be able to:

- comprehend spoken Spanish at the advanced intermediate level.
- orally communicate at the advanced intermediate level.
- write at the advanced intermediate level.

CSLOS

Statistics

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

STAT C1000 Introduction to Statistics

Upon completion of this course, the student should be able to:

- build a frequency distribution for, and make a histogram of, quantitative data.
- determine whether or not there is significant correlation for a bivariate data set, and if so, fit a linear regression equation and use it for data prediction.
- perform the steps for a hypothesis test about a single population parameter and interpret the result.
- solve an application problem using the central limit theorem.
- use a computer program to make a graph of categorical data.

Theater Arts

Division: A&H (Arts & Humanities)

CSLOs

THEA 3A Beginning Improvisation

Upon completion of this course, the student should be able to:

- apply the rules of improvisation to in-class performances.
- define vocabulary terms used in Improvisation.
- demonstrate creative and supportive ensemble participation.

THEA 3B Intermediate Improvisation

Upon completion of this course, the student should be able to:

- critique a live improvisation and identify the use of accepted rules of engagement.
- demonstrate the ability to act appropriately and spontaneously to a variety of audio, visual, or written materials without prior rehearsal.
- synthesize the ideas of others within an improvisation.

THEA 3C Improvisation in Performance

Upon completion of this course, the student should be able to:

- determine audience appropriate language within an improvisational performance.
- evaluate in writing effective performance techniques of observed improvisation performances.
- perform effective vocal and physical performance techniques within an improvisational performance.

THEA 5 Theater for Young Audiences

Upon completion of this course, the student should be able to:

- apply various skills to create a children's show, in areas such as performance, costumes, props, audio effects, set building, stage managing, or public relations.
- articulate the history of children's theater and its role in society, both in terms performance and written work.
- evaluate and analyze a script for rehearsal and performance.
- perform a scene utilizing specific techniques of acting and stagecraft that are unique to theater for young audiences.

CSLOS

THEA 39A

Upon completion of this course, the student should be able to:

- create a professional portfolio for auditioning with sheet music, resume and headshot/photo.
- demonstrate a responsible work ethic within a professional framework of collaboration in rehearsal and performance.
- examine major genres and contributors of the American Musical Theater.
- synthesize intermediate acting, movement and singing skills to create a truthful song performance.

THEA 47A Performance in Production: Introduction to Live Performance

Upon completion of this course, the student should be able to:

- apply physical and vocal techniques in rehearsal and performance.
- identify and explain the responsibilities of an actor in a play.
- rehearse and perform a characterization that is believable, accurate, consistent and energized in a play.
- research, describe and evaluate the historical and literary elements of a play.
- score an acting scene, describing beats of action, objectives, obstacles and tactics, and emotional shifts.
- work constructively with fellow actors and with staff in a theatrical production.

THEA 47B Performance in Production: Beginning

Upon completion of this course, the student should be able to:

- analyze the text and given character to create a live performance.
- determine the appropriate theatrical style and conventions for character development (farce, realism, Brecht, post-modern presentationalism, etc.).
- develop an understanding of the role of the character within the context of the play, identifying relationships and specific actions and character choices unique to the examination and portrayal of those relationships.
- use two rehearsal techniques for creating character and making acting choices (Adler, Stanislavski, Hagen, Meisner, improvisation, Epic, etc.).

THEA 47C Performance in Production: Intermediate

Upon completion of this course, the student should be able to:

- analyze the play to serve as support for fellow cast members.
- build collaboration and trust with ensemble members by serving as a positive and professional example during note giving and creative staff interactions.
- develop a personalized, systematic, approach for memorization.
- make complex, creative, and bold acting choices during the rehearsal process as a means of creative exploration.
- research, practice, and prepare a series of personal physical and vocal warm-ups, to be completed at each rehearsal and performance.

THEA 47D Performance in Production: Advanced

Upon completion of this course, the student should be able to:

- create a leading role character, and perform this role in a live theatre event.
- create a small outreach event to bring theater to local organizations, schools, and community centers.
- demonstrate professionalism in community outreach events and public publicity endeavors to advertise the program and production to local community.
- develop and create a physical and vocal expression of a character.
- integrate production elements from director, choreographer, and musical director feedback.
- lead other cast members in exercises and warm-ups valuable to the rehearsal process.
- work at an accelerated pace to create character and perfect memorization.

THEA 48A Tech Theater in Production - Beginning

Upon completion of this course, the student should be able to:

- recognize and use backstage and shop terminology, tools, materials and techniques.
- serve as a member of the running crew of a play or musical.
- work collaboratively with designers, technicians, and other theatre personnel.

CSLOS

THEA 48B Tech Theater in Production - Intermediate

Upon completion of this course, the student should be able to:

- operate and program, at a fundamental level, standard lighting, sound, or projection technology typically employed in a theatrical setting.
- serve in an entry-level leadership position or as a key member of a crew of a theatrical performance.
- work and problem solve in one or more areas of technical theatre.
- work collaboratively with designers, technicians, and other theatre personnel.

THEA 48C Tech Theater in Production - Advanced

Upon completion of this course, the student should be able to:

- identify and produce all of the material typically required in one of the design areas, lighting, projection, sound, costume, or scenic.
- work as a designer or assistant designer at a beginning or intermediate level.
- work collaboratively with designers, technicians, and other theatre personnel.

THEA 48D Tech Theater Prod- Capstone

Upon completion of this course, the student should be able to:

- work collaboratively with designers, technicians, and other theatre personnel.
- work in a managerial or supervisory role in a technical production area of a theatre company or a production.

THEA 50L Introduction to Stage Lighting

Upon completion of this course, the student should be able to:

- evaluate the effective use of lighting in a production.
- analyze a script and design a light plot for an assigned production.
- Upon completion of THEA 50L, the student should be able to hang and focus a light plot for an assigned production or repertory plot.
- produce all technical and creative paperwork for a lighting plot for an assigned production or repertory plot.
- recognize and use lighting control and lighting terminology, tools, materials and techniques.

THEA 53 Script Analysis

Upon completion of this course, the student should be able to:

- compare a live theatre production to its original script, identifying artistic choices that support or distract from the original script.
- evaluate scripts using a variety of different critical analysis methods: Formalistic, Historical, Genre, Socio-Political, Mythic-Psychological.
- identify production aspects within a script that might influence performance, costume, scenic, sound, lighting, or props.

THEA 54 Shakespeare Through Performance

Upon completion of this course, the student should be able to:

- create an accurate and personal paraphrase of Shakespeare's text.
- identify essential repeated sounds in a text and articulate and embody how these point to a character's active and emotional state.
- scan Shakespearean verse to identify rhythm (including iambic pentameter, trochaic meter, feminine endings) and articulate and embody how these changes in rhythm inform the character's state of mind.
- score Shakespearean text to identify major punctuation and rhetorical devices (including figures of balance, repetition, contraction, and expansion) and articulate and embody how these strategies inform a character's thought process.

THEA 56 Acting for the Camera

Upon completion of this course, the student should be able to:

- implement and evaluate single-camera acting techniques for film and television.
- list and locate casting breakdowns, understand explain union affiliations, and consider representation.
- recognize and define camera and on-set terminology, and vocabulary.

CSLOS

Tutoring

Division: BSSL (Business, Social Science, and Learning Resources)

CSLOs

TUTR 17A Tutoring Theory and Practice I

Upon completion of this course, the student should be able to:

- describe essential components of the beginning, middle, and end of a tutoring session.
- evaluate their implementation of key components of a tutoring session.

TUTR 17B Tutoring Theory and Practice II

Upon completion of this course, the student should be able to:

- explicitly teach metacognitive learning strategies.
- perform a self-evaluation of their use of tutoring techniques during a tutoring session.
- use active listening strategies to become aware of students' learning processes.

Viticulture and Winery Technology

Division: STEM (Science, Technology, Engineering & Math)

CSLOs

VWT 10 Introduction to Viticulture

Upon completion of this course, the student should be able to:

- describe the seasonal appearance and physiological functions of a grapevine from "pruned" dormancy to harvest.
- identify the external, structural components of a modern trellis system trained grape vine.

VWT 23 Fundamentals of Wine Science

Upon completion of this course, the student should be able to:

- identify the external, structural components of a modern trellis system trained grape vine.
- describe the seasonal appearance and physiological functions of a grapevine from "pruned" dormancy to harvest.

VWT 32 Spring Vineyard Operations

Upon completion of this course, the student should be able to:

- demonstrate knowledge of the multiple cultural practices that encompass vineyard floor management including, weed abatement, erosion control, burrowing pest controls and cover cropping.
- demonstrate the skills required to improve grape quality by the seasonal spring time cultural practice of thinning buds and shoots.
- identify the external, structural components of a modern trellis system trained grape vine.

VWT 35 Landscape and Vineyard Pest and Disease Management

Upon completion of this course, the student should be able to:

- accurately identify common insect, weed pests, and plant diseases.
- design an Integrated Pesticide Program for Landscapes or Vineyards.

CSLOS

VWT 47 Wines of California

Upon completion of this course, the student should be able to:

- accurately describe a wine's qualities.

Welding Technology

Division: PATH (Public Safety, Adv. Manufacturing, Transportation, Health & Kinesiology)

CSLOs

WLDT 55 Print Reading for Industry

Upon completion of this course, the student should be able to:

- demonstrate GD&T symbol identification and usage.
- identify the three primary views in an orthographic drawing.
- read and interpret a detail part drawing.

WLDT 61AL SMAW Skills Laboratory

Upon completion of this course, the student should be able to:

- demonstrate safety awareness in the welding workplace.
- demonstrate skills required to pass AWS D1.1 - 1G limited thickness A36 steel test plate using SMAW.
- demonstrate skills required to pass an AWS D1.1 - 1G limited thickness A36 steel test plate using FCAW.

WLDT 61BL FCAW Skills Laboratory

Upon completion of this course, the student should be able to:

- demonstrate safety awareness in the welding workplace.
- demonstrate skills required to pass AWS D1.1 - 3G limited thickness A36 steel test plate using FCAW.
- demonstrate skills required to pass AWS D1.1 - 3G limited thickness A36 steel test plate using SMAW.

WLDT 62 Welding Nonferrous Metals

Upon completion of this course, the student should be able to:

- demonstrate knowledge of the American Welding Society non ferrous electrode numbering system.
- demonstrate knowledge of Gas Metal Arc Welding, Flux Cored Arc Welding and Gas Tungsten Arc Welding used for joining non ferrous metals.

WLDT 62AL GTAW Skills Laboratory

Upon completion of this course, the student should be able to:

- demonstrate safety awareness in the welding workplace.
- demonstrate skills required to pass AWS D1.1 - 1G limited thickness A36 steel test plate using GMAW.
- demonstrate skills required to pass AWS D1.1 - 1G limited thickness A36 steel test plate using GTAW.

WLDT 62BL GMAW Skills Laboratory

Upon completion of this course, the student should be able to:

- demonstrate safety awareness in the welding workplace.
- demonstrate skills required to pass AWS D1.1 - 3G limited thickness A36 steel test plate using GMAW.
- demonstrate skills required to pass AWS D1.1 - 3G limited thickness A36 steel test plate using GTAW.

WLDT 66 Welding Inspection and Testing

Upon completion of this course, the student should be able to:

- demonstrate safety awareness in the welding workplace.
- demonstrate use and identify welding defects using Magnetic Particle Testing (MT).
- layout, cut, form, fit and weld a circular ring of a specified diameter.

CSLOS

WLDT 67A Elementary Welding Skills Laboratory

Upon completion of this course, the student should be able to:

- demonstrate safety awareness in the welding workplace.
- demonstrates self-directed goals achievement.

WLDT 67B Basic Welding Skills Laboratory

Upon completion of this course, the student should be able to:

- demonstrate safety awareness in the welding workplace.
- demonstrates achievement of self-directed goals.

WLDT 67C Intermediate Welding Skills Laboratory

Upon completion of this course, the student should be able to:

- demonstrate safety awareness in the welding workplace.
- demonstrate self-directed goals achievement.

WLDT 67D Advanced Welding Skills Laboratory

Upon completion of this course, the student should be able to:

- demonstrate safety awareness in the welding workplace.
- demonstrate self-directed goals achievement.

WLDT 68 Certification Preparation

Upon completion of this course, the student should be able to:

- demonstrate safety awareness in the welding workplace.
- demonstrates self-directed goals achievement.

WLDT 69AL Beginning Pipe Welding Skills Laboratory

Upon completion of this course, the student should be able to:

- demonstrate safety awareness in the welding workplace.
- demonstrate skills required to pass AWS D1.1 - 2G - 6" Schedule 40 carbon steel pipe welding test with ER70S GTAW root and ER7018 SMAW cover.
- layout longitudinal and circumferential lines on a piece of pipe.

WLDT 69BL Advanced Pipe Welding Skills Laboratory

Upon completion of this course, the student should be able to:

- demonstrate safety awareness in the welding workplace.
- demonstrate skills required to pass AWS D1.1 - 5G - 6" Schedule 40 carbon steel pipe welding test with ER70S GTAW root and ER7018 SMAW cover.
- layout a mitered offset on a piece of pipe.

WLDT 70 Introduction to Welding

Upon completion of this course, the student should be able to:

- demonstrate safe use of SMAW equipment.
- demonstrate safety awareness in the welding workplace.
- identify welding electrodes used for common industrial welding processes/applications.

WLDT 73 Welding Workplace Safety

Upon completion of this course, the student should be able to:

- demonstrate safety awareness in the welding workplace.
- identify and describe the Focus Four Hazards.
- earn an OSHA 10 Safety Certification.

CSLOS

WLDT 75 Measurements and Calculations

Upon completion of this course, the student should be able to:

- use various precision and semi-precision measuring tools
- demonstrate basic scientific calculator operations
- describe different number types
- apply Fractions, Decimals, Percents and Exponents in manufacturing applications
- measure angles and perform angular calculations
- identify different coordinate systems
- employ formulas to solve triangle problems
- employ formulas to solve circle problems
- identify geometric shapes and perform calculations involving area and volume
- describe uses for Algebraic equations in manufacturing applications
- construct graphs and apply their use in manufacturing applications
- demonstrate use of Literal equations in manufacturing applications

WLDT 79 Manufacturing Process

Upon completion of this course, the student should be able to:

- produce a manufacturing traveler for a manufactured item or component.
- provide an oral description of the processes used to make a manufactured item.

Women's Studies

Division: BSSL (Business, Social Science, and Learning Resources)

CSLOs

WMST 2 Global Perspective of Women

Upon completion of this course, the student should be able to:

- articulate the intersections between gender, and other racial and cultural identities.
- evaluate a variety of sources including print and electronic media, film, and video.
- identify transnational feminist movements.

Work Experience

Division: BSSL (Business, Social Science, and Learning Resources)

CSLOs

WRKX 94 Occupational Work Experience/Internship

Upon completion of this course, the student should be able to:

- achieve workplace learning objectives established by the student, supervisor, and instructor.
- describe professional work skills in the workplace.
- write a professional résumé including work experience completed during the course.

CSLOS

WRKX 95 General Work Experience

Upon completion of this course, the student should be able to:

- achieve workplace learning objectives established by the student, supervisor, and instructor.
- describe professional work skills in the workplace.
- write a self-analysis essay about development of work skills and achievement of learning objectives.