

# PSLO Presentation

---

Las Positas

Date: 07-20-2020

<b>AH</b>
<b>American Sign Language</b>
<b>CSLO</b>
<b>ASL1A - American Sign Language I</b> <ul style="list-style-type: none"><li>• Upon completion of ASL 1A, the student should be able to demonstrate proficiency in comprehension of American Sign Language for daily living contexts.</li><li>• Upon completion of ASL 1A, the student should be able to demonstrate receptive and expressive ASL grammatical functions and knowledge for daily living.</li><li>• Upon completion of ASL 1A, the student should be able to properly respond in American Sign Language to simple questions about their selves and surroundings.</li></ul>
<b>ASL1B - American Sign Language II</b> <ul style="list-style-type: none"><li>• Upon completion of ASL 1B, the student should be able to demonstrate increased receptive/expressive ASL grammatical functions and knowledge for daily living.</li></ul>
<b>ASL2A - American Sign Language III</b> <ul style="list-style-type: none"><li>• Upon completion of ASL 2A, the student should be able to ability to initiate, conduct, and terminate a context-specific conversation.</li></ul>
<b>ASL2B - American Sign Language IV</b> <ul style="list-style-type: none"><li>• Upon completion of ASL 2B, the student should be able to demonstrate comprehension and production of ASL discourse.</li></ul>
<b>Art</b>
<b>CSLO</b>
<b>ARTS2A - Introduction to Drawing</b> <ul style="list-style-type: none"><li>• Upon completion of ARTS 2A, the student should be able to demonstrate ability to recognize and recreate, on a picture plane, observed values and proportions.</li><li>• Upon completion of ARTS 2A, the student should be able to compose drawings with the elements and principles of visual art and design.</li><li>• Upon completion of ARTS 2A, the student should be able to implement materials common to the drawing process.</li></ul>
<b>ARTS2B - Drawing and Composition</b> <ul style="list-style-type: none"><li>• Upon completion of ARTS 2B, the student should be able to compose drawings with a calculated use of values.</li><li>• Upon completion of ARTS 2B, the student should be able to create drawings based on simple volumes to create the illusion of space.</li><li>• Upon completion of ARTS 2B, the student should be able to create drawings using mixed media.</li></ul>
<b>ARTS3A - Figure and Composition I</b> <ul style="list-style-type: none"><li>• Upon completion of ARTS 3A, the student should be able to comprehend artistic anatomy of the human figure.</li><li>• Upon completion of ARTS 3A, the student should be able to create a series of investigative drawings with different expressive strategies for the figure.</li><li>• Upon completion of ARTS 3A, the student should be able to demonstrate the ability to analyze the human form, and represent that form on a 2-D surface.</li></ul>
<b>ARTS3B - Figure and Composition II</b> <ul style="list-style-type: none"><li>• Upon completion of ARTS 3B, the student should be able to comprehend and create an informed body of work using artistic anatomy of the human figure.</li><li>• Upon completion of ARTS 3B, the student should be able to create a series of intermediate level investigative drawings with different expressive strategies for the figure.</li><li>• Upon completion of ARTS 3B, the student should be able to demonstrate an intermediate ability to analyze the human form, and represent that form on a 2-D surface.</li></ul>
<b>ARTS3C - Figure and Composition III</b> <ul style="list-style-type: none"><li>• Upon completion of ARTS 3C, the student should be able to comprehend and create a well-informed body of work using artistic anatomy of the human figure.</li></ul>

- Upon completion of ARTS 3C, the student should be able to create a series of advanced level investigative drawings with different expressive strategies for the figure.
- Upon completion of ARTS 3C, the student should be able to demonstrate an advanced ability to analyze the human form, and represent that form on a 2-D surface.

### ARTS3D - Figure and Composition IV

- Upon completion of ARTS 3D, the student should be able to comprehend and create a well-informed body of work using artistic anatomy of the human figure.
- Upon completion of ARTS 3D, the student should be able to create a series of advanced level investigative drawings with different expressive strategies for the figure.
- Upon completion of ARTS 3D, the student should be able to demonstrate an advanced ability to analyze the human form, and represent that form with a high degree of skill on a 2-D surface.

### ARTS7A - Intro to Watercolor Painting

- Upon completion of ARTS 7A, the student should be able to demonstrate a knowledge and awareness of color theory and a variety of application techniques.
- Upon completion of ARTS 7A, the student should be able to demonstrate an aesthetic awareness of value and its uses in creating light and space on a 2 dimensional plane.
- Upon completion of ARTS 7A, the student should be able to demonstrate proficiency in the basic techniques of watercolor painting: flat wash, glazing, wet-in-wet.
- Upon completion of ARTS 7A, the student should be able to demonstrate the use of materials and equipment of the craft of painting in watercolor.
- Upon completion of ARTS 7A, the student should be able to produce watercolor paintings using basic techniques.

### ARTS7B - Watercolor Painting

- Upon completion of ARTS 7B, the student should be able to complete a body of paintings that demonstrates an understanding of specific subject based material.
- Upon completion of ARTS 7B, the student should be able to demonstrate a knowledge of composition.
- Upon completion of ARTS 7B, the student should be able to demonstrate a mastery of watercolor application and techniques.
- Upon completion of ARTS 7B, the student should be able to produce watercolor paintings demonstrating intermediate color theory applications.
- Upon completion of ARTS 7B, the student should be able to produce watercolor paintings demonstrating intermediate value applications.

### ARTS7C - Advanced Watercolor Painting I

- Upon completion of ARTS 7C, the student should be able to demonstrate advanced painting skills utilizing interdisciplinary/hybrid approaches to painting utilizing watercolors alone or modified with mixed media.
- Upon completion of ARTS 7C, the student should be able to demonstrate aesthetic independence, critical thinking, creative initiative, and formal knowledge via an independent research project.
- Upon completion of ARTS 7C, the student should be able to identify advanced technical problems, analyze and objectively assess advanced watercolor paintings in a verbal critique.
- Upon completion of ARTS 7C, the student should be able to produce watercolor paintings demonstrating advanced color theory applications utilizing watercolors alone or modified with mixed media.
- Upon completion of ARTS 7C, the student should be able to produce watercolor paintings demonstrating advanced composition applications.

### ARTS7D - Advance Watercolor Painting II

- Upon completion of ARTS 7D, the student should be able to demonstrate advanced painting skills utilizing interdisciplinary/hybrid approaches to painting utilizing watercolors alone or modified with mixed media.
- Upon completion of ARTS 7D, the student should be able to demonstrate aesthetic independence, critical thinking, creative initiative, and formal knowledge via an independent research project.
- Upon completion of ARTS 7D, the student should be able to identify and create advanced watercolor paintings utilizing advanced painting skills.
- Upon completion of ARTS 7D, the student should be able to produce watercolor paintings demonstrating advanced color theory applications utilizing watercolors alone or modified with mixed media.
- Upon completion of ARTS 7D, the student should be able to produce watercolor paintings demonstrating advanced composition applications.

### ARTS12A - Oil/Acrylic Painting: Begin I

- Upon completion of ARTS 12A, the student should be able to administer appropriate terminology for critiquing and analyzing paintings.
- Upon completion of ARTS 12A, the student should be able to apply content to paintings and explain its meaning.
- Upon completion of ARTS 12A, the student should be able to compose paintings with the elements and principles of visual art and design.

- Upon completion of ARTS 12A, the student should be able to develop painting skills.
- Upon completion of ARTS 12A, the student should be able to paint with a variety of techniques.

### ARTS12B - Oil/Acrylic Painting: Begin II

- Upon completion of ARTS 12B, the student should be able to administer appropriate terminology for critiquing and analyzing paintings.
- Upon completion of ARTS 12B, the student should be able to apply Content to paintings and explain its meaning.
- Upon completion of ARTS 12B, the student should be able to compose paintings with the elements and principles of visual art and design.
- Upon completion of ARTS 12B, the student should be able to develop upon established painting skills.
- Upon completion of ARTS 12B, the student should be able to paint with a variety of techniques and refine those techniques.

### ARTS12C - Oil/Acrylic Painting: Adv I

- Upon completion of ARTS 12C, the student should be able to administer appropriate terminology for critiquing and analyzing paintings.
- Upon completion of ARTS 12C, the student should be able to apply content to paintings and explain its meaning.
- Upon completion of ARTS 12C, the student should be able to compose paintings with the elements and principles of visual art and design.
- Upon completion of ARTS 12C, the student should be able to develop further upon established painting skills.
- Upon completion of ARTS 12C, the student should be able to focus on previously refined techniques to develop skill.

### ARTS12D - Oil/Acrylic Painting: Adv II

- Upon completion of ARTS 12D, the student should be able to administer appropriate terminology for critiquing and analyzing paintings.
- Upon completion of ARTS 12D, the student should be able to apply researched content to paintings and explain its meaning.
- Upon completion of ARTS 12D, the student should be able to compose paintings with the elements and principles of visual art and design.
- Upon completion of ARTS 12D, the student should be able to focus on previously refined techniques to develop skill.

### ARTS23 - 2-D Design

- Upon completion of ARTS 23, the student should be able to create a portfolio of all projects that demonstrates a working knowledge of 2D design.
- Upon completion of ARTS 23, the student should be able to create a self-portrait collage that demonstrates knowledge of the elements and principles of design.

### ARTS24 - 3-D Design

- Upon completion of ARTS 24, the student should be able to demonstrate and apply an understanding of 3D composition.
- Upon completion of ARTS 24, the student should be able to demonstrate and apply excellent craftsmanship.

### ARTS26 - Color Theory

- Upon the completion of ARTS 26, the student should be able to evaluate the use of color by other artists and designers.
- Upon the completion of ARTS 26, the student should be able to manipulate the emotional effect of a composition through the calculated use of color.
- Upon the completion of ARTS 26, the student should be able to produce compelling compositions using color relationships (triads, complements, analogous, etc.).

## Art History

### CSLO

#### ARHS1 - Intro to Art History

- Upon completion of ARHS 1, the student should be able to demonstrate critical and creative thinking by applying interdisciplinary approaches to the interpretation of artwork.
- Upon completion of ARHS 1, the student should be able to identify formal elements in an artwork and be able to ascertain how these elements create meaning in the chosen art work.
- Upon completion of ARHS 1, the student should be able to identify themes of art within a chosen art work across a broad range of cultures and time periods.

#### ARHS2 - Art of the Ancient Americas

- Upon completion of ARHS 2, the student should be able to analyze artwork of the Ancient Americas using art historical methodology.
- Upon completion of ARHS 2, the student should be able to identify and evaluate art historical styles, movements, and concepts in the art of the Ancient Americas.

- Upon completion of ARHS 2, the student should be able to recognize the relationship between art and its geographic, cultural, and historical context.

#### ARHS4 - Western Art History- Ancient

- Upon completion of ARHS 4, 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.
- Upon completion of ARHS 4, the student should be able to articulate connections between artistic movements and historical events in the Western world from pre-history through the Gothic period.
- Upon completion of ARHS 4, the student should be able to identify ancient Western art movements, artists, and technical processes.

#### ARHS5 - Western Art Hist- Renaissance

- Upon completion of ARHS 5, 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.
- Upon completion of ARHS 5, the student should be able to analyze works of art and how they relate to their associated world geography.
- Upon completion of ARHS 5, the student should be able to identify Western art movements, artists, and technical processes from the Renaissance through the 20th century.

#### ARHS6 - Museum & Gallery Techniques

- Upon completion of ARHS 6, the student should be able to create written exhibition proposals.
- Upon completion of ARHS 6, the student should be able to evaluate ethical debates within the museum and gallery field.
- Upon completion of ARHS 6, the student should be able to identify the history of the contemporary art world.
- Upon completion of ARHS 6, the student should be able to install an art exhibition.

### Communication Studies

#### CSLO

##### CMST1 - Fundamentals Public Speaking

- Upon completion of CMST 1, the student should be able to deliver a speech with effective content, organization, and delivery.

##### CMST2 - Oral Interpretation of Lit.

- Upon completion of CMST 2, the student should be able to compile a collection of literature from different genres that unite a central theme.
- Upon completion of CMST 2, the student should be able to perform a selection of literature aloud.

##### CMST3 - Group Communication

- Upon completion of CMST 3, the student should be able to effectively communicate in a group performance to complete a task or goal.

##### CMST4 - Intro to Communication Studies

- Upon completion of CMST 4, the student should be able to deliver a speech with effective organization, content, and delivery.
- Upon completion of CMST 4, the student should be able to effectively communicate in group performance to complete a task or goal.
- Upon completion of CMST 4, the student should be able to identify and illustrate necessary skills for application of interpersonal communication competence.

##### CMST5 - Readers Theater

- Upon completion of CMST 5, the student should be able to compile a cohesive Reader's Theater script.
- Upon completion of CMST 5, the student should be able to perform a Reader's Theater compilation script.

##### CMST10 - Interpersonal Communication

- Upon completion of CMST 10, the student should be able to identify and demonstrate necessary skills for application of interpersonal communication competence.
- Upon completion of CMST 10, the student should be able to identify and demonstrate necessary skills of comprehension of interpersonal communication competence.

##### CMST11 - Intercultural Communication

- Upon completion of CMST 11, the student should be able to demonstrate an ability to effectively communicate in a culture other than their own.

##### CMST46 - Argumentation and Debate

- Upon completion of CMST 46, the student should be able to critically analyze an argument.

- Upon completion of CMST 46, the student should be able to develop and deliver an argument.

### CMST48 - Activities in Forensics

- Upon completion of CMST 48, the student should be able to perform a platform speech in a competitive situation.
- Upon completion of CMST 48, the student should be able to perform an oral interpretation presentation in a competitive situation.

## Dance

### CSLO

#### DANC1 - Introduction to Dance

- Upon completion of DANC 1, students should be able to critique dance performances in terms of the intent, success of the choreographer, technique of the dancers, and incorporation of the elements of dance.
- Upon completion of DANC 1, students should be able to identify elements of dance terminology.
- Upon completion of DANC 1, students should be able to perform foundational dance techniques in the genres of ballet, modern, and jazz dance.

#### DANC2A - Jazz Dance Beginning

- Upon completion of DANC 2A, students 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.
- Upon completion of DANC 2A, students should be able to execute movement reflecting the desired timing and musicality at an introductory level.
- Upon completion of DANC 2A, students should be able to perform dance technique specific to jazz dance at an introductory level.

#### DANC2B - Jazz Dance Intermediate

- Upon completion of DANC 2B, students 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.
- Upon completion of DANC 2B, students should be able to execute movement reflecting the desired timing and musicality at an intermediate level.
- Upon completion of DANC 2B, students should be able to perform dance technique specific to jazz dance at an intermediate level.

#### DANC3A - Ballet-Beginning

- Upon completion of DANC 3A, students should be able to critique ballet performances in terms of the intent, success of the choreographer, technique of the dancers, and incorporation of the elements of dance.
- Upon completion of DANC 3A, students should be able to execute movement reflecting the desired timing and musicality at an introductory level.
- Upon completion of DANC 3A, students should be able to perform dance technique specific to ballet at an introductory level.

#### DANC4A - Modern/Contemporary Dance A

- Upon completion of DANC 4A, students 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.
- Upon completion of DANC 4A, students should be able to execute movement reflecting the desired timing and musicality at an introductory level.
- Upon completion of DANC 4A, students should be able to perform dance technique specific to modern dance at an introductory level.

#### DANC4B - Modern/Contemporary Dance B

- Upon completion of DANC 4B, students 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.
- Upon completion of DANC 4B, students should be able to execute movement reflecting the desired timing and musicality at an intermediate level.
- Upon completion of DANC 4B, students should be able to perform dance technique specific to modern dance at an intermediate level.

#### DANC5A - Dance Composition Beginning

- Upon completion of DANC 5A, students should be able to construct dance compositions communicating a specific idea at an introductory level.
- Upon completion of DANC 5A, students should be able to construct dance compositions with a defined structure at an introductory level.
- Upon completion of DANC 5A, students should be able to construct engaging and original dance compositions.

#### DANC5B - Dance Composition Intermediate

- Upon completion of DANC 5B, students should be able to construct dance compositions communicating a specific idea at an intermediate

level.

- Upon completion of DANC 5B, students should be able to construct dance compositions with a defined structure at an intermediate level.
- Upon completion of DANC 5B, students should be able to construct engaging and original dance compositions.

#### **DANC6A - Choreography for the Stage A**

- Upon completion of DANC 6A, students should be able to critique dance performances in terms of the intent, success of the choreographer, technique of the dancers, and incorporation of the elements of dance.
- Upon completion of DANC 6A, students should be able to identify appropriate music and costuming for a dance work.
- Upon completion of DANC 6A, students should be able to interact in a professional manner with their choreographer.

#### **DANC6B - Choreography for the Stage B**

- Upon completion of DANC 6B, students should be able to create dance works for the stage.
- Upon completion of DANC 6B, students should be able to critique dance performances in terms of the intent, success of the choreographer, technique of the dancers, and incorporation of the elements of dance.
- Upon completion of DANC 6B, students should be able to incorporate design elements into a dance work, including music, costuming, and lighting.

### **English**

#### **CSLO**

##### **ENG1A - Critical Reading and Comp**

- Upon completion of English 1A, the student will be able to identify the main ideas and supporting arguments of a college-level text.
- Upon completion of English 1A, the student will be able to research a topic using credible sources and document sources in an academically responsible way.
- Upon completion of English 1A, the student will be able to use effective and correct sentence structures to convey ideas.
- Upon completion of English 1A, the student will be able to write an academic essay using textual evidence to support a thesis.

##### **ENG1AEX - Critical Reading Comp Expanded**

- Upon completion of English 1AEX, the student will be able to identify the main ideas and supporting arguments of a college-level text.
- Upon completion of English 1AEX, the student will be able to research a topic using credible sources and document sources in an academically responsible way.
- Upon completion of English 1AEX, the student will be able to use effective and correct sentence structures to convey ideas.
- Upon completion of English 1AEX, the student will be able to write an academic essay using textual evidence to support a thesis.

##### **ENG4 - Critical Thinking/Writing Lit**

- Upon completion of English 4, the student will be able to identify and evaluate implied arguments in college-level literary texts.
- Upon completion of English 4, the student will be able to use grammar, vocabulary, and style appropriate for academic essays.
- Upon completion of English 4, the student will be able to write a research paper using credible sources and correct documentation.
- Upon completion of English 4, the student will be able to write an academic essay synthesizing multiple texts and using logic to support a thesis.

##### **ENG7 - Critical Thinking/Writing**

- Upon completion of English 7, the student will be able to evaluate the logic and validity of a nonfiction college-level text's reasoning and support.
- Upon completion of English 7, the student will be able to use grammar, vocabulary, and style appropriate for academic essays.
- Upon completion of English 7, the student will be able to write a research paper using credible sources and correct documentation.
- Upon completion of English 7, the student will be able to write an academic essay synthesizing multiple texts and using logic to support a thesis.

##### **ENG11 - Intro to Creative Writing**

- Upon completion of English 11, the student will be able to write poems in traditional and modern forms, applying techniques including image, metaphor, sound, and symbolism.
- Upon completion of English 11, the student will be able to write a short story applying techniques of dialogue, characterization, point-of-view, plot, description, style, tone, and voice.

##### **ENG12A - Craft of Writing Fiction**

- Upon completion of English 12A, the student will 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.

### ENG12B - Craft of Writing Fict:Intermed

- Upon completion of English 12B, the student will 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.

### ENG13A - Introduction Writing Poetry

- Upon completion of English 13A, the student will 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.

### ENG13B - Writing Poetry: Intermediate

- Upon completion of English 13B, the student will be able to demonstrate knowledge of poetry publication markets and strategies.
- Upon completion of English 13B, the student will be able to write poems in traditional and modern forms, demonstrating intermediate proficiency in techniques including image, metaphor, sound, and symbolism to develop ideas and create meaning.

### ENG19A - Journal of Arts and Writing A

- Upon completion of English 19A, the student will be able 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.

### ENG19B - Journal of Arts and Writing B

- Upon completion of English 19B, the student will be able 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.

### ENG20 - Studies in Shakespeare

- Upon completion of English 20, the student will be able to analyze an author's use of literary techniques to develop a theme.
- Upon completion of English 20, the student will be able to identify, analyze, and interpret the distinctive metaphors, poetic forms and vocabulary used in Shakespeare's plays and sonnets.
- Upon completion of English 20, the student will be able to recognize, appreciate, and compare the similarities and differences between authors, characters, and self that stem from historical era and cultural tradition.

### ENG32 - U.S. Women's Literature

- Upon completion of English 32, the student will be able to analyze an author's use of literary techniques to develop a theme.
- Upon completion of English 32, the student will be able to recognize, appreciate, and analyze the impact of gender on individual expression.
- Upon completion of English 32, the student will be able to recognize, appreciate, and compare the similarities and differences between authors, characters, and self that stem from historical era and cultural tradition.

### ENG35 - Modern American Literature

- Upon completion of English 35, the student will be able to analyze an author's use of literary techniques to develop a theme.
- Upon completion of English 35, the student will be able to analyze, evaluate, and interpret how 20th century American literature creates and reflects an American identity.
- Upon completion of English 35, the student will be able to recognize, appreciate, and compare the similarities and differences between authors, characters, and self that stem from historical era and cultural tradition.

### ENG41 - WORLD LIT: 17TH CENT-PRESENT

- Upon completion of English 41, the student will be able to analyze an author's use of literary techniques to develop a theme.
- Upon completion of English 41, the student will be able to analyze two authors from different cultures, recognizing universal themes as well as distinct ideas regarding human nature, cultural values, or literary form.
- Upon completion of English 41, the student will be able to recognize, appreciate, and compare the similarities and differences between authors, characters, and self that stem from historical era and cultural tradition.

### ENG44 - Literature of American West

- Upon completion of English 44, the student will be able to analyze an author's use of literary techniques to develop a theme.
- Upon completion of English 44, the student will be able to appreciate how individuals from different racial groupings, and different classes and genders within those groupings, contributed to the fabric of American Western culture through their individual action and interaction.
- Upon completion of English 44, the student will be able to describe literary aspects of American Western narrative, including narrative style, character, dialogue, figurative language, and the use of landscape, among others.
- Upon completion of English 44, the student will be able to recognize, appreciate, and compare the similarities and differences between authors, characters, and self that stem from historical era and cultural tradition.

### ENG45 - Studies in Fiction

- Upon completion of English 45, the student will be able to analyze an author's use of literary techniques to develop a theme.
- Upon completion of English 45, the student will be able to demonstrate familiarity with the structure of the works studied and discuss the works using appropriate literary terms such as metaphor, plot, point of view, and character development.
- Upon completion of English 45, the student will be able to recognize, appreciate, and compare the similarities and differences between authors, characters, and self that stem from historical era and cultural tradition.

### ENG104 - Integrated Reading & Writing II

- Upon completion of English 104, the student will be able to identify main and supporting ideas of a nonfiction article.
- Upon completion of English 104, the student will be able to use a variety of sentence structures.
- Upon completion of English 104, the student will be able to write about an author's words and ideas in an academically responsible way.
- Upon completion of English 104, the student will be able to write an essay with a thesis and controlling idea.

## English as a Second Language

### CSLO

#### ESL23 - College Grammar

- Upon completion of ESL 23, the student should be able to analyze sentence structure of complex sentences with multiple clauses in written academic discourse.
- Upon completion of ESL 23, the student should be able to interpret and analyze verb tense and aspect, use appropriate verb tense and aspect in discourse, interpret, analyze, and use active and passive voice in discourse.
- Upon completion of ESL 23, the student should be able to recognize the multiple uses of verb forms in written discourse and have mastery over the verbs that are frequently followed by a gerund or an infinitive.
- Upon completion of ESL 23, the student should be able to use standard grammar terminology to analyze and discuss English in written academic discourse.

#### ESL24 - Adv. Reading and Composition I

- Upon completion of ESL 24, the student should be able to demonstrate a low-advanced ability to identify main ideas and supporting details in level-appropriate texts.
- Upon completion of ESL 24, the student should be able to produce an essay of five to six paragraphs with a minimum of 500 words that demonstrates clear organization, logical development, and correct language use.

#### ESL25 - Adv. Reading and Composition II

- Upon completion of ESL 25, the student should be able to demonstrate a high-advanced ability to identify main ideas and supporting details in level-appropriate texts.
- Upon completion of ESL 25, the student should be able to write an essay of five to seven paragraphs that demonstrates clear organization, logical development, and correct language use.

#### ESL26 - Advanced Editing

- Upon completion of ESL 26, the student should be able to distinguish the subject, verb, and object in each clause in compound, complex, compound-complex sentence and identify errors.
- Upon completion of ESL 26, the student should be able to identify verbs as linking, intransitive, or transitive in all clauses in simple, compound, complex, and compound-complex sentences and identify errors.
- Upon completion of ESL 26, the student should be able to 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.
- Upon completion of ESL 26, the student should be able to 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.

#### ESL100 - Beginning Spelling for English

- Upon completion of ESL 100, the student should be able to correctly identify sound-spelling correspondence of short and long vowel sounds.
- Upon completion of ESL 100, the student should be able to correctly identify sound-spelling correspondence of voiced and voiceless consonants.
- Upon completion of ESL 100, the student should be able to correctly spell commonly used words in English that follow conventional spelling patterns.
- Upon completion of ESL 100, the student should be able to correctly spell commonly used words in English that follow non-conventional spelling patterns.

#### ESL110 - Beginning Vocabulary Skills

- Upon completion of ESL 110, the student should be able to correctly use common beginning-level abbreviations.

- Upon completion of ESL 110, the student should be able to correctly use common beginning- level collocations.
- Upon completion of ESL 110, the student should be able to correctly use common beginning-level stems and affixes.
- Upon completion of ESL 110, the student should be able to correctly use vocabulary from the 0-1000 most common word list.

### ESL115 - Intermediate Vocabulary Skills

- Upon completion of ESL 115, the student should be able to correctly use common intermediate- level abbreviations.
- Upon completion of ESL 115, the student should be able to correctly use common intermediate- level collocations.
- Upon completion of ESL 115, the student should be able to correctly use common intermediate-level stems and affixes.
- Upon completion of ESL 115, the student should be able to correctly use vocabulary from the 1000-2000 most common word list.

### ESL120A - Interm. Grammar/Read, Write I

- Upon completion of ESL 120A, 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.
- Upon completion of ESL 120A, the student should be able to distinguish subjects, verbs, direct objects, prepositional phrases, gerund phrases, infinitive phrases, and infinitives of purpose in simple, compound and complex sentences with adverb clauses.
- Upon completion of ESL 120A, the student should be able to 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.
- Upon completion of ESL 120A, the student should be able to 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.

### ESL120B - Interm. Grammar/Read, Write II

- Upon completion of ESL 120B, 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.
- Upon completion of ESL 120B, the student should be able to 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.
- Upon completion of ESL 120B, the student should be able to 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.
- Upon completion of ESL 120B, the student should be able to 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.

### ESL121A - Interm. Reading and Writing

- Upon completion of ESL 121A, the student should be able to demonstrate a low-intermediate ability to identify main ideas and supporting details in level-appropriate texts.
- Upon completion of ESL 121A, the student should be able to produce an essay of three or more paragraphs that demonstrates level appropriate and coherent writing through organization, development and language use.

### ESL121B - High-Intermediate Reading

- Upon completion of ESL 121B, the student should be able to demonstrate a high-beginning ability to identify main ideas and supporting details in level-appropriate texts.
- Upon completion of ESL 121B, the student should be able to produce an essay of four or more paragraphs that demonstrates level appropriate and coherent writing through organization, development and language use.

### ESL123 - Interm. Oral Communication

- Upon completion of ESL 123, the student should be able to comprehend a short lecture on an academic topic.
- Upon completion of ESL 123, the student should be able to research and make a five-minute presentation on a new topic.
- Upon completion of ESL 123, the student should be able to take dictation of sentences and questions.
- Upon completion of ESL 123, the student should be able to use academic vocabulary and expressions.

### ESL126 - Intermediate Pronunciation and

- Upon completion of ESL 126, 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.
- Upon completion of ESL 126, the student should be able to give oral directions and instructions.
- Upon completion of ESL 126, the student should be able to pronounce learned vocabulary and idiomatic expressions understandably.
- Upon completion of ESL 126, the student should be able to take dictation of compound and complex sentences and questions with learned academic vocabulary.

**ESL130A - Beginning Grammar for Reading**

- Upon completion of ESL 130A, 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).
- Upon completion of ESL 130A, the student should be able to distinguish subjects, verbs, objects, and prepositional phrases in simple sentences.
- Upon completion of ESL 130A, the student should be able to 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.
- Upon completion of ESL 130A, the student should be able to 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.

**ESL130B - High-Beginning Grammar**

- Upon completion of ESL 130B, 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.
- Upon completion of ESL 130B, the student should be able to distinguish subject, verb, objects, and phrases (noun, prepositional, gerund, and infinitive) in simple and compound sentences.
- Upon completion of ESL 130B, the student should be able to 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.
- Upon completion of ESL 130B, the student should be able to 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.

**ESL131A - Beginning Reading and Writing**

- Upon completion of ESL 131A, the student should be able to demonstrate a low-beginning ability to identify main ideas and supporting details in level-appropriate texts.
- Upon completion of ESL 131A, the student should be able to produce paragraphs of 8 -12 sentences that demonstrate level appropriate and coherent writing through organization, development and language use.

**ESL131B - High-Beg. Reading and Writing**

- Upon completion of ESL 131B, the student should be able to demonstrate a high-beginning ability to identify main ideas and supporting details in level-appropriate texts.
- Upon completion of ESL 131B, the student should be able to produce a paragraph of 12-15 sentences that demonstrate level appropriate and coherent writing through organization, development and language use.

**ESL133 - Beginning Oral Communication**

- Upon completion of ESL 133, the student should be able to participate in discussions in one-to-one and small group situations on a variety of topics.
- Upon completion of ESL 133, the student should be able to use level-appropriate grammatical structures, vocabulary, and idiomatic expressions for a variety of communicative purposes.
- Upon completion of ESL 133, the student should be able to take dictation of sentences and questions.
- Upon completion of ESL 133, the student should be able to retell the plot and/or main ideas from news items, movies, lectures, or presentations.

**ESL136 - Pronunciation and Fluency**

- Upon completion of ESL 136, the student should be able to correctly pronounce level-appropriate vocabulary and idiomatic expressions.
- Upon completion of ESL 136, the student should be able to identify and stress appropriate content word(s) in a sentence.
- Upon completion of ESL 136, the student should be able to distinguish sounds in minimal pairs.
- Upon completion of ESL 136, the student should be able to correctly identify and pronounce voiced and voiceless sounds.

**French****CSLO****FREN1A - Beginning French**

- Upon completion of FREN 1A, the student should be able to communicate orally at the beginning level.
- Upon completion of FREN 1A, the student should be able to comprehend spoken French at the beginning level.
- Upon completion of FREN 1A, the student should be able to write at the beginning level.

**FREN1B - Elementary French**

- Upon completion of French 1B, students will be able to communicate orally at the advanced-beginning level.

- Upon completion of French 1B, students will be able to comprehend spoken French at the advanced-beginning level.
- Upon completion of French 1B, students will be able to write at the advanced-beginning level.

## Graphic Design Digital Media

### CSLO

#### GDDM2 - Wordpress and Content Mgmt.

- Upon completion of GDDM 2, the student should be able to determine the best content management system to use for a given web development project.
- Upon completion of GDDM 2, the student should be able to develop dynamic websites using content management systems.
- Upon completion of GDDM 2, the student should be able to install and set up WordPress and other content management systems such as Joomla and Drupal.
- Upon completion of GDDM 2, the student should be able to PHP and JavaScript/jQuery to create child and a basic custom theme in WordPress.

#### GDDM3 - The History of Modern Design

- Upon completion of GDDM 3, the student should be able to identify and discuss the basic historical influences of modern design in architecture, industrial design, graphic design, and interior design.
- Upon completion of GDDM 3, the student should be able to identify and discuss the role of design in contemporary society.
- Upon completion of GDDM 3, the student should be able to identify, compare, and discuss the major historical design movements of the 20th century.

#### GDDM4 - User Interface and Exp. Design

- Upon completion of GDDM 4, the student should be able to develop interfaces for various device types by following standard User Experience Design principles and techniques.
- Upon completion of GDDM 4, the student should be able to discuss and apply basic design principles as they apply to multimedia.
- Upon completion of GDDM 4, the student should be able to discuss and apply the basic principles of information architecture.
- Upon completion of GDDM 4, the student should be able to generate documents related to User Experience Design such as wireframes and personas.

#### GDDM40 - Design Shop:Business of Design

- Upon completion of GDDM 40, the student should be able to complete a project from concept to conclusion alone or in a team, to deadline, and to client's stated criteria, with disciplined control and craftsmanship.
- Upon completion of GDDM 40, the student should be able to explain the components of the design business, both front and back end.
- Upon completion of GDDM 40, the student should be able to lead client presentations at the professional-level, including an ability to discuss objectives, research, conceptual process and strategies, and lead critique and feedback sessions using industry-standard terminology.
- Upon completion of GDDM 40, the student should be able to use Adobe Creative Suite software with ease and facility at the advanced level.

#### GDDM45A - Digital Painting I

- Upon completion of GDDM 45A, the student should be able to compare and contrast different available software and hardware tools for digital painting.
- Upon completion of GDDM 45A, the student should be able to compose paintings with the elements and principles of visual art and design.
- Upon completion of GDDM 45A, the student should be able to paint with a variety of techniques and software.
- Upon completion of GDDM 45A, the student should be proficient with digital painting software and techniques.

#### GDDM45B - Digital Painting II

- Upon completion of GDDM 45B, 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).
- Upon completion of GDDM 45B, the student should be able to create images demonstrating dynamic composition.
- Upon completion of GDDM 45B, the student should be able to create images that effectively communicate elements of storytelling in the image.
- Upon completion of GDDM 45B, the student should be able to draw and paint from reference images and from imagination using digital tools.

#### GDDM50 - Graphic Design/Digital Media

- Upon completion of GDDM 50, the student should be able to define a verbal concept as spatial and proportional relationships; refine concept as an abstract or pictorial image; work through multiple revisions; present and defend image in instructor critique.
- Upon completion of GDDM 50, the student should be able to understand design as a visual language that is built on fundamental principles and elements.

### GDDM51 - Color Theory

- Upon completion of GDDM 51, the student should be able to describe the different interactions of color and how it affects color perception and to be able to revise/adjust color combinations to achieve color harmony.
- Upon completion of GDDM 51, the student should be able to explain the difference between additive and subtractive color models and identify the appropriate instances to use each color model.
- Upon completion of GDDM 51, the student should be able to make compositional decisions using color as the main design element by selecting colors appropriate to a project's design and communication goals.
- Upon completion of GDDM 51, the student should be able to recognize traditional color schemes and color relationships when looking at color combinations.

### GDDM52 - Introduction to Typography

- Upon completion of GDDM 52, 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).
- Upon completion of GDDM 52, the student should be able to design effective page layouts using appropriate typesetting techniques such as typeface choice, size, spacing, line length, and page grid.
- Upon completion of GDDM 52, the student should be able to 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.
- Upon completion of GDDM 52, the student should be able to select typefaces appropriate to a project's design and communications goals and to use letterforms as design elements.

### GDDM53 - Photoshop I

- Upon completion of GDDM 53, the student should be able to create photographic montages using Adobe Photoshop.
- Upon completion of GDDM 53, the student should be able to use Photoshop tools to manipulate images for retouching, color correction, and basic adjustments.
- Upon completion of GDDM 53, the student should be able to use various tools for creating Selections, Mask, and Alpha Channels to isolate and manipulate images.

### GDDM54 - Illustrator I

- Upon completion of GDDM 54, 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.
- Upon completion of GDDM 54, the student should be able to demonstrate understanding of the Pen Tool, individual anchor points, and Bezier handles, and be able to manipulate artwork on a point-by-point level.
- Upon completion of GDDM 54, the student should be able to use Illustrator at the most basic level to create illustrations and simple graphic designs.
- Upon completion of GDDM 54, the student should be able to work in the Illustrator interface with facility.

### GDDM55 - Web Design I

- Upon completion of GDDM 55, the student should be able to create and manipulate HTML and HTML5 and CSS within a HTML5 website.
- Upon completion of GDDM 55, the student should be able to create optimized digital artwork to be used within a HTML website.
- Upon completion of GDDM 55, the student should be able to exhibit an understanding of the utilization of time appropriate methodologies in producing website ready files. Build an html website with the optimized html code.
- Upon completion of GDDM 55, the student should be able to use Dreamweaver at the most basic level to create a 5-page web site that shows good use of design principles and takes into account the needs of the end user.
- Upon completion of GDDM 55, the student should be able to utilize image manipulation software to create an automated workflow in optimizing multiple images.

### GDDM56 - Introduction to Graphic Design

- Upon completion of GDDM 56, the student should be able to critically analyze graphic design problems and artwork solutions.
- Upon completion of GDDM 56, the student should be able to design and assemble a technically proficient body of two-dimensional design work that demonstrates the successful visualization of ideas and applies the fundamental knowledge and related set of skills to produce two-dimensional design work.
- Upon completion of GDDM 56, the student should be able to develop and practice and the knowledge and skills to work in two-dimensional spaces utilizing the basic elements and principles of design: unity, balance, scale, hierarchy, emphasis, similarity and contrast, pattern and texture, color, etc.
- Upon completion of GDDM 56, the student should be able to generate effective design processes by utilizing the fundamental design elements, such as: Squares, dots, lines, text and mass for creating effective compositions; current trends in visual communication.

### GDDM58 - Photoshop II

- Upon completion of GDDM 58, the student should be able to apply design principles in relationship to digital image painting manipulation, illustration and other composition tasks.
- Upon completion of GDDM 58, the student should be able to compose and manipulate a variety of images from various sources into photo-realistic composites.
- Upon completion of GDDM 58, the student should be able to create accurate electronic files for delivery to screen (web, app development, multimedia) and print (prepress, photo prints).
- Upon completion of GDDM 58, the student should be able to generate special effects in Photoshop using filters, adjustment layers, layer masks, and layer effects.

### **GDDM59 - Illustrator II**

- Upon completion of GDDM 59, 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.
- Upon completion of GDDM 59, the student should be able to incorporate raster images into their work and be able to develop their artwork using both raster and vector art.
- Upon completion of GDDM 59, the student should be able to set up a perspective grid using the perspective tools and apply the basic principals of linear perspective.

### **GDDM60 - Creative Potfolio Dev & Promo**

- Upon completion of GDDM 60, the student should be able to make oral and visual presentations of their professional portfolios and self-promotional materials to industry standard.
- Upon completion of GDDM 60, the student should be able to prepare a personal portfolio and related self-promotional materials to industry standards for several possible practical applications.
- Upon completion of GDDM 60, the student should be able to prepare a personal résumé tailored to industry standards.
- Upon completion of GDDM 60, the student should be able to strategize effective self-promotion of ideas and skills for employment in the visual communications world.

### **GDDM62 - Web Design II**

- Upon completion of GDDM 62, the student should be able to apply JavaScript to a HTML5 website.
- Upon completion of GDDM 62, the student should be able to create an optimized responsive HTML5 website with CSS.
- Upon completion of GDDM 62, the student should be able to create HTML5 multiple video sources for a HTML5 website.

### **GDDM64 - InDesign I**

- Upon completion of GDDM 64, the student should be able to apply the fundamental principals and considerations of page layout design by properly setting up a document to correct trim, bleed, margins, page count, and folds.
- Upon completion of GDDM 64, the student should be able to create an effective layout by combining text and images and manage all related art assets for press ready output.
- Upon completion of GDDM 64, the student should be able to effectively combine text and images into a single layout and manage all related art assets for final output.
- Upon completion of GDDM 64, the student should be able to effectively use type with appropriate consideration to typeface, style, size, location, and formatting in regards to legibility and readability of text.
- Upon completion of GDDM 64, the student should be able to identify various image formats, its features and its limitations and to use appropriate image types in page layouts at the correct size, resolution, and color space.
- Upon completion of GDDM 64, the student should be able to utilize typographic tools and typesetting features in InDesign, demonstrating the ability to select the appropriate font, style, size, location, and formatting in regards to legibility of text.

### **GDDM65 - Elect Prepress/Print Prod**

- Upon completion of GDDM 65, the student should be able to use Illustrator at industry-standard level to design and pre-flight work for print production taking into account technical requirements as well as layout and design principles.
- Upon completion of GDDM 65, the student should be able to use InDesign at industry-standard level to design and pre-flight work for print production taking into account technical requirements as well as layout and design principles.
- Upon completion of GDDM 65, the student should be able to use Photoshop at industry-standard level to design and pre-flight work for print production taking into account technical requirements as well as layout and design principles.

### **GDDM68 - Creative Portfolio Prep**

- Upon completion of GDDM 68, the student should be able to compile a body of work to be used to build a professional level portfolio.
- Upon completion of GDDM 68, the student should be able to create self-initiated projects that reflect the student's interests and reflect their design sensibility.
- Upon completion of GDDM 68, the student should be able to revise and update existing projects with fresh perspective and develop projects to reflect current skill levels.

## **Humanities**

**CSLO****HUMN3 - Introduction to Humanities**

- Upon completion of HUMN 3, the student should be able to explain how and why human beings creatively express themselves through the arts.
- Upon completion of HUMN 3, the student should be able to express and explain their appreciation of works of visual art, music, literature, theater, and film.
- Upon completion of HUMN 3, the student should be able to organize and evaluate works of art based on historical period and using the elements and principles of art studied in class.

**HUMN4 - Global Cinemas**

- Upon completion of HUMN 4, the student should be able to analyze films in terms of both formal aspects and narrative or thematic content.
- Upon completion of HUMN 4, the student should be able to compare and contrast characteristics of major global film styles and traditions.
- Upon completion of HUMN 4, the student should be able to identify major developments in global film history in terms of how they relate to important historical and cultural contexts.

**HUMN6 - Nature and Culture**

- Upon completion of HUMN 6, students will be able to articulate their own personal aesthetic of the natural world.
- Upon completion of HUMN 6, the student should be able to describe examples of how the natural world has been creatively depicted in visual arts, media, literature, philosophy, and music.
- Upon completion of HUMN 6, the student should be able to evaluate theories of environmental aesthetics.

**HUMN10 - American Arts and Ideas**

- Upon completion of HUMN 10, 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.
- Upon completion of HUMN 10, the student should be able to discuss how works of art from the United States reflect the values and meanings of the American cultural experience.
- Upon completion of HUMN 10, the student should be able to evaluate the contributions made to American culture of various ethnic and culture groups.
- Upon completion of HUMN 10, the student should be able to use the evaluative methods discussed in class to meaningfully organize, interpret, and evaluate specific works of art.

**HUMN28 - World Mythology**

- Upon completion of HUMN 28, 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.
- Upon completion of HUMN 28, the student should be able to apply major theoretical approaches to mythology to interpret myths from world cultures.
- Upon completion of HUMN 28, the student should be able to distinguish mythic sources in literature, music, and the visual arts.

**Interior Design****CSLO****INTD5 - Principles of Interior Design**

- Upon completion of INTD 5, students will be able to develop a color board to present to the client.
- Upon completion of INTD 5, students will be able to gather information to develop a board of wood species and stain colors to present to the client.
- Upon completion of INTD 5, students will have the ability to apply colors, patterns and textures in room design.

**INTD10 - Introduction to Textiles**

- Upon completion of INTD 10, students will be able to advise clients about color and texture of textile materials that will be compatible with other fabrics/materials throughout the design.
- Upon completion of INTD 10, students will be able to advise clients about wear and use of textiles.
- Upon completion of INTD 10, students will be able to recognize differences in textile aesthetics and create combinations that present visual logic, interest, and compatibility.

**INTD15 - Drafting for Interior Design**

- Upon completion of INTD 15, students will be able to design a floor plan based on conceptual bubble diagrams.
- Upon completion of INTD 15, students will be able to render drawings, calculate scale sizes of an elevation drawing.

- Upon completion of INTD 15, students will have the ability to measure, calculate and draw a room using standard drafting procedures.

**INTD20 - History of Interiors/Furn.**

- Upon completion of INTD 20, students will be able to explain the contribution and value of past periods to current design practice.
- Upon completion of INTD 20, students will be able to identify interiors and furnishings by period and style.
- Upon completion of INTD 20, students will be able to recognize styles and major architectural influences.

**INTD25 - Materials and Resources**

- Upon completion of INTD 25, students will be able to analyze current uses of materials and learn about resources in home application.
- Upon completion of INTD 25, students will be able to demonstrate knowledge of the different categories of lighting; ambient, task, decorative, direct, and indirect.
- Upon completion of INTD 25, students will be able to evaluate existing residential and commercial lighting installations.

**INTD30 - Fundamentals of Lighting**

- Upon completion of INTD 30, students will be able to select appropriate lighting sources for specific uses.
- Upon completion of INTD 30, students will demonstrate knowledge of the different categories of lighting: ambient, task, decorative, direct and indirect.
- Upon completion of INTD 30, students will understand existing residential and commercial lighting installations.

**INTD35 - Residential Space Planning**

- Upon completion of INTD 35, students will be able to present accurately drawn floor plans and elevations with space planning criteria.
- Upon completion of INTD 35, students will be able to understand the principles relating to design, spaces, and materials.
- Upon completion of INTD 35, students will have the ability to work with clients to respond to their individual needs and requests.

**INTD40 - Computer Aided Design**

- Upon completion of INTD 40, students will be able to execute a conception plan into the computer program from drawings to full plans, including 3D visual prints and animation.
- Upon completion of INTD 40, students will be able to use dimensions and measuring to achieve scales on computerized floor plans.

**INTD45 - Basic Kitchen and Bath Design**

- Upon completion of INTD 45, students will be able to design a kitchen or bath with a recognition of codes and guidelines affecting safety and functionality for the user.
- Upon completion of INTD 45, students will be fully aware of the specific and unique challenges of kitchen and bath design.
- Upon completion of INTD 45, students will have knowledge of various mechanical/technical infrastructure within their floor plan.
- Upon completion of INTD 45, students will have the ability to write complete and correct materials and product specifications.

**INTD47 - Professional Practices**

- Upon completion of INTD 47, students will be able to create strategic plans for operating a business.
- Upon completion of INTD 47, students will have knowledge of methods of compensation, marketing, public relations, and advertising.
- Upon completion of INTD 47, students will know state and local requirements for interior design business practices.

**Italian**

**CSLO**

**ITLN1A - Beginning Italian**

- By the end of the semesters students will write a 6-8 sentence present tense paragraph.

**ITLN1B - Elementary Italian**

- By the end of the semester students will write an 8-10 sentence paragraph in passato prossimo.

**Mass Communications**

**CSLO**

**MSCM1 - Intro Reporting & Newswriting**

- Upon completion of MSCM 1, the student will be able to research and write a news story demonstrating skills in writing a lead, integrating quotations, showing balance, using proper mechanics and style, and conforming to industry standards of law, ethics, and taste.

**MSCM5 - Intro to Mass Communications**

- Upon completion of MSCM 5, the student will be able to create a comparative analysis of how different media outlets cover a single new story.
- Upon completion of MSCM 5, the student will be able to describe the history, social impact, economics, and regulation of mass communications.

**MSCM7 - INTRO TO PUBLIC RELATIONS**

- Upon completion of MSCM 7, the student will be able to create and pitch a professional public relations proposal that exhibits writing skills, creativity, understanding of (social) media and audiences, problem-solving abilities, and grasp of modern PR techniques.

**MSCM16A - Express College Newspaper A**

- Upon completion of MSCM 16A, the student will 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.

**MSCM16B - Express College Newspaper B**

- Upon completion of MSCM 16B, the student will 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.

**MSCM16C - Express College Newspaper C**

- Upon completion of MSCM 16C, the student will 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.

**MSCM16D - Express College Newspaper D**

- Upon completion of MSCM 16D, the student will 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.

**MSCM17 - Express Editorial Board**

- Upon completion of MSCM 17, the student will 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.

**MSCM19A - Journal of Arts and Writing A**

- Upon completion of MSCM 19A, the student will 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.

**MSCM19B - Journal of Arts and Writing B**

- Upon completion of MSCM 19B, the student will 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.

**MSCM31 - Introduction to Media**

- Upon completion of MSCM 31, the student will be able to analyze the differences between new media technologies and traditional forms of mass communication, such as radio, television, and film.
- Upon completion of MSCM 31, the student will be able to critically analyze the negative and positive impacts of technology on society.

**MSCM34A - College Magazine A**

- Upon completion of MSCM 34A, the student will be able to contribute to the student magazine, Naked, with an increasing degree of proficiency, demonstrating professionalism, functional skills, teamwork, commitment to the organization, and completion of assigned stories and visuals in proper magazine style.
- Upon completion of MSCM 34A, the student will be able to design and edit stories and visuals in proper magazine style at a beginner level.

**MSCM34B - College Magazine B**

- Upon completion of MSCM 34B, the student will be able to design and edit stories and visuals in proper magazine style at an intermediate level.

**MSCM35 - MULTIMEDIA REPORTING**

- Upon completion of MSCM 35, the student will be able to produce video that presents local news in a professional manner.

**MSCM72 - Intro. to Photojournalism**

- Upon completion of MSCM 72, the student will be able to demonstrate typology as a method of photographic documentation.

Music

**CSLO**

### MUS1 - Introduction to Music

- Upon completion of MUS 1, the student will be able to analyze particular musical works with regard to style and technical elements.
- Upon completion of MUS 1, the student will be able to outline the broad history of music in the Western European tradition, both sacred and secular.
- Upon completion of MUS 1, the student will be able to synthesize and integrate general musical analysis into short analytical papers about music.

### MUS3 - World Music

- Upon completion of MUS 3, the student will be able to compare and contrast a variety of world music genres.
- Upon completion of MUS 3, the student will be able to demonstrate basic knowledge of music from around the world through written assignments and exams.
- Upon completion of MUS 3, the student will be able to synthesize and integrate general musical analysis into short analytical papers about music from a variety of world cultures.

### MUS4 - Jazz in American Culture

- Upon completion of MUS 4, the student will be able to analyze particular musical works with regard to style, technical elements.
- Upon completion of MUS 4, the student will be able to compare the parallel political and social climate that has affected jazz's evolution.
- Upon completion of MUS 4, the student will be able to 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.

### MUS5 - American Cultures in Music

- Upon completion of MUS 5, the student will be able to analyze and interpret particular musical works with regard to style and technical elements.
- Upon completion of MUS 5, the student will be able to distinguish and debate the contributions of the various cultures that make up America's popular music and its people.
- Upon completion of MUS 5, the student will be able to synthesize factual information and historical evidence through informed listening, analysis, form, and repertoire.

### MUS6 - Basic Music Skills

- Upon completion of MUS 6, the student will be able to construct major/minor scales and demonstrate a basic comprehension of key relationships.
- Upon completion of MUS 6, the student will be able to correctly notate basic rhythms, melodies, and harmonic progressions.
- Upon completion of MUS 6, the student will be able to develop a comprehension of typical music notation through harmonic and formal analysis of the literature.

### MUS8A - Theory and Musicianship 1

- Upon completion of MUS 8A, the student will be able to analyze basic chord progressions using standard Roman Numeral analysis.
- Upon completion of MUS 8A, the student will be able to hear music with understanding, recognizing patterns, and musical function. To demonstrate this ability, students should be able to aurally identify all intervals - ascending, descending, and harmonic.
- Upon completion of MUS 8A, the student will be able to transcribe and correctly notate basic rhythms and melodies.

### MUS8B - Theory and Musicianship 2

- Upon completion of MUS 8B, the student will be able to analyze intermediate chord progressions using standard Roman Numeral analysis.
- Upon completion of MUS 8B, the student will be able to construct three different original compositions using three different forms in four measure phrases.
- Upon completion of MUS 8B, the student will be able to write progressions using four-part diatonic harmony.

### MUS10A - Theory and Musicianship 3

- Upon completion of MUS 10A, the student will be able to analyze harmonic, melodic, and formal elements of chromatic music using a variety of techniques and approaches.
- Upon completion of MUS 10A, the student will be able to transcribe and correctly notate moderately advanced rhythms, chord progressions, and melodies.
- Upon completion of MUS 10A, the student will be able to utilize their knowledge of music theory to compose a variety of short pieces.

### MUS10B - Theory and Musicianship 4

- Upon completion of MUS 10B, the student will be able to analyze works in a variety of 20th and 21st Century genres using advanced techniques such as arc diagrams, texture maps, and theme maps.
- Upon completion of MUS 10B, the student will be able to demonstrate an advanced understanding of how music is constructed and performed in 20th and 21st Century Styles.
- Upon completion of MUS 10B, the student will be able to demonstrate their musicianship abilities to perform harmonic dictation, melodic dictation, rhythmic dictation, and sight-singing.

**MUS12 - WIND ENSEMBLE**

- Upon completion of MUS 12, the student will be able to demonstrate an adherence to recognized standards of professionalism in a rehearsal setting.
- Upon completion of MUS 12, the student will be able to demonstrate the ability to play on pitch in a section and ensemble as directed by a conductor.
- Upon completion of MUS 12, the student will be able to employ group participation, personal growth, and public performance to formulate an individual identity in a musical ensemble.

**MUS13 - History of Rock and Roll**

- Upon completion of MUS 13, the student will be able to articulate the influence of modern technology on musical instruments and recording techniques.
- Upon completion of MUS 13, the student will be able to differentiate between various styles of rock and popular music.
- Upon completion of MUS 13, the student will be able to synthesize factual information and historical evidence through informed listening, analysis, evaluation and discernment of musical elements, forms and repertoire.

**MUS14 - Jazz Workshop**

- Upon completion of MUS 14, the student will be able to demonstrate an adherence to recognize standards of professionalism in a rehearsal setting.
- Upon completion of MUS 14, the student will be able to demonstrate the ability to play on pitch in a section and ensemble as directed by a conductor.
- Upon completion of MUS 14, the student will be able to perform stylistically appropriately to the period/style of the composition.

**MUS15 - Jazz Ensemble**

- Upon completion of MUS 15, the student will be able to demonstrate an adherence to recognize standards of professionalism in a rehearsal setting.
- Upon completion of MUS 15, the student will be able to demonstrate the ability to play on pitch in a section and ensemble as directed by a conductor.
- Upon completion of MUS 15, the student will be able to perform stylistically appropriately to the period/style of the composition.

**MUS16 - Philharmonic Orchestra**

- Upon completion of MUS 16, the student will be able to demonstrate an adherence to recognized standards of professionalism in a rehearsal setting.
- Upon completion of MUS 16, the student will be able to demonstrate the ability to play on pitch in a section and ensemble as directed by a conductor.
- Upon completion of MUS 16, the student will be able to perform stylistically appropriately to the period/style of the composition.

**MUS17A - Jazz Combo 1**

- Upon completion of MUS 17A, the student will be able to develop mastery of improvisation based on study of jazz masters.
- Upon completion of MUS 17A, the student will be able to perform jazz repertoire at an introductory level.
- Upon completion of MUS 17A, the student will be able to transcribe and perform basic musical licks in all 12 keys.

**MUS17B - Jazz Combo 2**

- Upon completion of MUS 17B, the student will be able to analyze, interpret, and perform intermediate and advanced jazz repertoire in a combo setting.
- Upon completion of MUS 17B, the student will be able to apply knowledge of jazz practices to their unique improvisations.
- Upon completion of MUS 17B, the student will be able to demonstrate intermediate/advanced knowledge of jazz repertoire through performance and practice.
- Upon completion of MUS 17B, the student will be able to develop a mastery of improvisation through study, transcription, and trial and error.

**MUS18A - Jazz/Pop Piano 1**

- Upon completion of MUS 18A, the student will be able to apply jazz/pop voicing and stylistic approaches to jazz/pop repertoire.
- Upon completion of MUS 18A, the student will be able to improvise a basic piano solo over a simple chord progression.
- Upon completion of MUS 18A, the student will be able to interpret and perform basic lead-sheets.

**MUS18B - Jazz/Pop Piano 2**

- Upon completion of MUS 18B, the student will be able to apply intermediate jazz/pop voicings and stylistic approaches to jazz/pop repertoire.
- Upon completion of MUS 18B, the student will be able to demonstrate the ability to interpret and perform intermediate lead-sheets.

- Upon completion of MUS 18B, the student will be able to improvise an intermediate piano solo over an intermediate chord progression.

### **MUS19 - Studies in Music Composition**

- Upon completion of MUS 19, the student will be able to analyze and integrate knowledge of contemporary classical repertoire into original compositions.
- Upon completion of MUS 19, the student will be able to compose music for a variety of ensembles using standard practice techniques.
- Upon completion of MUS 19, the student will be able to create professional scores and parts using standard music notation software.

### **MUS20A - Elementary Guitar**

- Upon completion of MUS 20A, the student will be able to perform basic melodies, chords, and rhythms on the guitar.
- Upon completion of MUS 20A, the student will be able to perform simple repertoire in small guitar ensembles.
- Upon completion of MUS 20A, the student will be able to read, analyze, and perform simple sheet music.

### **MUS20B - Study of Guitar**

- Upon completion of MUS 20B, the student will be able to perform intermediate melodies, chords, and rhythms on the guitar.
- Upon completion of MUS 20B, the student will be able to perform intermediate repertoire in small guitar ensembles.
- Upon completion of MUS 20B, the student will be able to read, analyze, and perform intermediate sheet music.

### **MUS20C - Advanced Guitar**

- Upon completion of MUS 20C, the student will be able to perform advanced melodies, rhythms, and chords on the guitar.
- Upon completion of MUS 20C, the student will be able to perform advanced repertoire in small guitar ensembles.
- Upon completion of MUS 20C, the student will be able to read, analyze, and perform advanced sheet music.

### **MUS21A - Beginning Piano**

- Upon completion of MUS 21A, the student will be able to demonstrate basic piano technique using proper hand position, posture, and fingering.
- Upon completion of MUS 21A, the student will be able to practice course material effectively on their own.
- Upon completion of MUS 21A, the student will be able to practice, perform, and memorize scales, chords, and simple harmonic progressions.

### **MUS21B - Beginning Piano: Intermediate**

- Upon completion of MUS 21B, the student will be able to apply intermediate music theory when performing scales, chords, and progressions.
- Upon completion of MUS 21B, the student will be able to employ intermediate piano technique and incorporate it into daily practice.
- Upon completion of MUS 21B, the student will be able to practice, master, and memorize intermediate repertoire in a variety of styles while displaying accurate rhythm, fingering, and expression.

### **MUS22A - Scoring Film and Multimedia 1**

- Upon completion of MUS 22A, the student will be able to analyze a piece of music by recognizing instrumentation, thematic development, and compositional intent.
- Upon completion of MUS 22A, the student will be able to create original music for film, games, and other types of multimedia projects.
- Upon completion of MUS 22A, the student will have a foundational skill set for working with digital audio workstation software and recording technology.

### **MUS23A - Elementary Voice I**

- Upon completion of MUS 23A, the student will be able to demonstrate an acute awareness of diction, vowels, and pronunciation in English and Italian singing.
- Upon completion of MUS 23A, the student will be able to demonstrate knowledge of the basic anatomy and physiology involved in tone production and the respiratory system and its contribution to singing.
- Upon completion of MUS 23A, the student will be able to 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.

### **MUS23B - Elementary Voice II**

- Upon completion of MUS 23B, the student will be able to demonstrate advanced knowledge of the anatomy and physiology involved in tone production and the respiratory system and its contribution to singing.
- Upon completion of MUS 23B, the student will be able to demonstrate an acute awareness of diction, vowels, pronunciation, and introductory IPA proficiency in multiple languages.
- Upon completion of MUS 23B, the student will be able to 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.

### **MUS25 - Teaching Beginning Piano**

- Upon completion of MUS 25, students will be able to develop and formulate a teaching philosophy and official policies for their piano studios.
- Upon completion of MUS 25, the student will be able to evaluate a variety of methods for teaching beginners.
- Upon completion of MUS 25, the student will be able to prepare, execute, and evaluate a comprehensive piano lesson for the beginning piano student.

### **MUS26 - Methods/Materials/Piano Tchrs**

- Upon completion of MUS 26, the student will be able to demonstrate the ability to select appropriate piano method books for a variety of piano students.
- Upon completion of MUS 26, the student will be able to evaluate a variety of method books and business practices for piano students.
- Upon completion of MUS 26, the student will be able to evaluate advantages and disadvantages of method books in order to choose effective curriculum for a variety of students.
- Upon completion of MUS 26, the student will be able to prepare, execute, and evaluate a comprehensive piano lesson for the intermediate piano student.

### **MUS27 - Teaching Intermediate Piano**

- Upon completion of MUS 27, the student will be able to address common challenges that are common to the piano teaching profession.
- Upon completion of MUS 27, the student will be able to evaluate a variety of methods for teaching intermediate pianists.
- Upon completion of MUS 27, the student will be able to present intermediate pieces to their students by explaining the form, compositional technique, style and mood of the piece, as well as the intent of the composer.

### **MUS28 - Keyboard Skills**

- Upon completion of MUS 28, the student will be able to apply theory and technique to a variety of piano repertoire.
- Upon completion of MUS 28, the student will be able to perform all triads, and major and minor scales in all keys with appropriate technique.
- Upon completion of MUS 28, the student will be able to sight-read and perform intermediate piano excerpts.

### **MUS31 - Study of Piano**

- Upon completion of MUS 31, the student will be able to develop an understanding of intermediate to advanced music theory and be able to apply it to their piano playing through scales, chords, and simple progressions.
- Upon completion of MUS 31, the student will be able to illustrate a mastery of course knowledge through in-class performance.
- Upon completion of MUS 31, the student will be able to learn and employ advanced piano technique and incorporate it into daily practice.
- Upon completion of MUS 31, the student will be able to select, practice, master, and memorize intermediate to advanced repertoire in a variety of styles with an understanding of correct rhythm, fingering, and expression.

### **MUS34 - Music in Film**

- Upon completion of MUS 34, the student will be able to distinguish the styles of prominent film music composers and their contributions to the field of film scoring.
- Upon completion of MUS 34, the student will be able to recognize significant trends in the history of American film scoring and their relationship to developments in American cinema, both technological and cultural.

### **MUS35 - Intro to Music Technology**

- Upon completion of MUS 35, the student will be able to explain and demonstrate basic principles of sound and acoustics.
- Upon completion of MUS 35, the student will be able to understand and be able to demonstrate basic techniques in using a Digital Audio Workstation with MIDI capability.
- Upon completion of MUS 35, the student will be able to understand and demonstrate general music technology concepts, equipment, software, and industry practices.

### **MUS36 - Intermediate Music Technology**

- Upon completion of MUS 36, the student will be able to demonstrate advanced techniques using a Digital Audio Workstation with MIDI and live audio capability.
- Upon completion of MUS 36, the student will be able to explain and demonstrate advanced principles of sound and acoustics.
- Upon completion of MUS 36, the student will be able to present completed audio projects using recorded live audio with appropriate editing, mixing, and mastering in a variety of formats.

### **MUS37 - Music Industry Career Dev.**

- Upon completion of MUS 37, the student will be able to conduct and present research on trends and strategies within the music industry.
- Upon completion of MUS 37, the student will be able to distinguish and analyze a variety of music industry career pathways.

- Upon completion of MUS 37, the student will be able to market and promote musical events, ensembles, and companies.

**MUS38 - Applied Lessons**

- Upon completion of MUS 38, the student will be able to successfully demonstrate the Applied Lessons Requirements (organize by semester of study) as outlined by the music department faculty.
- Upon completion of MUS 38, the student will be able to complete successful music performances and final jury or recital demonstrating overall improvements and advancement in individual study.
- Upon completion of MUS 38, the student will be able to complete the required number of lessons, on-campus practice hours, musical exercises, and repertoire as assigned by the instructor.

**MUS44 - Concert Choir**

- Upon completion of MUS 44, the student will be able to demonstrate appropriate stage appearance and overall ability through performance of music in a variety of cultural styles.
- Upon completion of MUS 44, the student will be able to demonstrate healthy vocal technique (tone, resonance, support, effective singing posture, accurate intonation) as proscribed by the instructor.
- Upon completion of MUS 44, the student will be able to demonstrate improvements in basic rhythms, intonation, overall musicianship, and ability to carry one's part singing within an ensemble.

**MUS45 - Chamber Choir**

- Upon completion of MUS 45, the student will be able to demonstrate appropriate stage appearance and overall ability through multiple performances of music in a variety of cultural styles.
- Upon completion of MUS 45, the student will be able to demonstrate improvements in advanced rhythms, intonation, overall musicianship, and ability to carry one's part singing within an ensemble.
- Upon completion of MUS 45, the student will be able to demonstrate successful ensemble methods, adhering to director's instructions.

**MUS46B - Advanced Jazz Choir**

- Upon completion of MUS 46B, the student will be able to demonstrate advanced overall musicianship and ability to carry one's part singing within an ensemble.
- Upon completion of MUS 46B, the student will be able to demonstrate advanced understanding of the performance sound system, including safe set-up, take-down, and operation.
- Upon completion of MUS 46B, the student will be able to demonstrate appropriate stage appearance and overall ability through multiple performances of music in a variety of cultural styles.
- Upon completion of MUS 46B, the student will be able to perform intermediate solo improvisation using appropriate syllables and articulations.

**MUS47 - College Productions-Music**

- Upon completion of MUS 47, the student will be able to demonstrate an adherence to recognized standards of professionalism in a rehearsal setting.
- Upon completion of MUS 47, the student will be able to, by the opening of the musical production, the students will demonstrate the ability to play or sing on pitch in a section and ensemble as directed by a conductor.
- Upon completion of MUS 47, the student will be able to, by the opening of the musical theater production, the students will show by their performance in the production, their group participation and individual work to make the show a success.

**MUS48 - Improvisation Lab**

- Upon completion of MUS 48, the student will be able to demonstrate facility and technique in performing improvisations in solo and ensemble contexts.
- Upon completion of MUS 48, the student will be able to perform, memorize, and interpret repertoire in a variety of styles.

**Noncredit English**

**CSLO**

**NENG204 - Reading and Writing II**

- Upon completion of NENG 204, students will be able to identify the main and supporting ideas of a nonfiction article.
- Upon completion of NENG 204, students will be able to use a variety of sentence structures.
- Upon completion of NENG 204, students will be able to write about an author's words and ideas in an academically responsible way.
- Upon completion of NENG 204, students will be able to write an essay with a thesis and controlling idea.

**Noncredit ESL**

**CSLO**

**NESL220A - Intermediate Grammar Reading**

- Upon completion of NESL 220A, 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.
- Upon completion of NESL 220A, the student should be able to distinguish subjects, verbs, direct objects, prepositional phrases, gerund phrases, infinitive phrases, and infinitives of purpose in simple, compound and complex sentences with adverb clauses.
- Upon completion of NESL 220A, the student should be able to 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.
- Upon completion of NESL 220A, the student should be able to 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.

**NESL220B - High-Intermediate Grammar**

- Upon completion of NESL 220B, 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.
- Upon completion of NESL 220B, the student should be able to 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.
- Upon completion of NESL 220B, the student should be able to 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.
- Upon completion of NESL 220B, the student should be able to 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.

**NESL221A - Intermed. Reading and Writing**

- Upon completion of NESL 221A, the student should be able to demonstrate a low-intermediate ability to identify main ideas and supporting details in level-appropriate texts.
- Upon completion of NESL 221A, the student should be able to produce an essay of three or more paragraphs that demonstrates level-appropriate and coherent writing through organization, development, and language use.

**NESL231A - Beginning Reading and Writing**

- Upon completion of NESL 231A, the student should be able to demonstrate a low-beginning ability to identify main ideas and supporting details in level appropriate texts.
- Upon completion of NESL 231A, the student should be able to produce paragraphs of 8 -12 sentences that demonstrate level appropriate and coherent writing through organization, development and language use.

**NESL231B - High- Beg. Reading and Writing**

- Upon completion of NESL 231B, the student should be able to demonstrate a high-beginning ability to identify main ideas and supporting details in level-appropriate texts.
- Upon completion of NESL 231B, the student should be able to produce a paragraph of 12-15 sentences that demonstrate level appropriate and coherent writing through organization, development and language use.

**Philosophy****CSLO****PHIL1 - God, Nature, Human Nature**

- Upon completion of PHIL 1, 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.
- Upon completion of PHIL 1, the student should be able to use philosophical methods to explain, apply and evaluate philosophical positions of their own and of significant historical figures.

**PHIL2 - Ethics**

- Upon completion of PHIL 2, the student should be able to apply diverse abstract ethical theories to evaluate contemporary moral challenges.
- Upon completion of PHIL 2, 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.

**PHIL3 - Aesthetics**

- Upon completion of PHIL 3, the student should be able to apply philosophical methods of artistic analysis to specific works of art.
- Upon completion of PHIL 3, 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

**PHIL4 - Intro to Philosophy: Knowledge**

- Upon completion of PHIL 4, 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.
- Upon completion of PHIL 4, the student should be able to use philosophical methods to explain, apply, and evaluate specific epistemic theories.

### PHIL5 - Feminist Philosophy

- Upon completion of PHIL 5, the student should be able to participate and express opinions in a group and whole-class setting in a way that is respectful and well thought-through.
- Upon completion of PHIL 5, the student should be able to use philosophical methods to explain, apply, and evaluate specific feminist theories.

### PHIL6 - INTRODUCTION TO LOGIC

- Upon completion of PHIL 6, the student should be able to apply the basic principles of causal and probabilistic reasoning.
- Upon completion of PHIL 6, the student should be able to identify, describe and evaluate the informal logical fallacies.
- Upon completion of PHIL 6, the student should be able to use natural deduction to evaluate the validity of arguments in propositional logic.

### PHIL8 - Logic and Argumentation

- Upon completion of PHIL 8, the student should be able to check for the validity of arguments using truth tables and formal rules in a system of natural deduction.
- Upon completion of PHIL 8, the student should be able to compose an extended argumentative essay using effective logical tools and sound essay structure.
- Upon completion of PHIL 8, the student should be able to identify, critique and avoid both formal and informal fallacies in argumentation.

## Photography

### CSLO

#### PHTO50 - Introduction to Photography

- 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).

#### PHTO51A - Individual Projects A

- Produce a portfolio of photographic prints demonstrating proficiency with film-based darkroom or digital, computer-based equipment.

#### PHTO56 - Intro to Digital Photography

- Demonstrate the effective use of techniques used to control and enhance a given captured digital image, i.e. levels, contrast, hue/saturation.

#### PHTO57 - INTERMEDIATE DIGITAL PHOTO

- Create a printed hard-copy portfolio of class assignments.
- Create an online portfolio of photographic images from class assignments.

#### PHTO58 - Introduction to Videography

- Successfully use an industry-standard digital video editing program to produce completed video projects combining video, sound, and titles.

#### PHTO60 - Intermed. Black & White Photo

- 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.
- Upon completion of PHTO 60, students will be able to prepare prints for public exhibition, including printing, mounting, framing, display/install in galleries or other spaces.

#### PHTO64A - Artificial Light Photography

- Produce portraits using various poses, light patterns and light ratios.

#### PHTO67 - HISTORY OF PHOTOGRAPHY

- Identify photographs by the technical process used for their creation.

#### PHTO68 - Color Field Photography

- Upon completion of PHTO 68, student will be able to use photographic filters to solve exposure issues.
- Upon completion of PHTO 68, students will be able to use cameras on-location to capture images of various subject matter.

- Upon completion of PHTO 68, students will use natural and artificial lighting in the field for creative and technical control of photographs.

#### **PHTO69 - INTERMEDIATE VIDEOGRAPHY**

- Successfully utilize field-recording equipment, such as off-camera microphones and audio mixers to improve sound quality of footage.
- Upon completion of PHTO 69, student should be able to write a short script for video/film.

#### **PHTO72 - Intro. to Photojournalism**

- Upon completion of PHTO 72, student should be able to demonstrate typology as a method of photographic documentation
- Upon completion of PHTO 72, student should be able to photograph a news assignment.

### **Religious Studies**

#### **CSLO**

##### **RELS1 - Religions of the World**

- Upon completion of RELS 1, the student should be able to compare and contrast the teaching of major religious figures.
- Upon completion of RELS 1, the student should be able to identify the core beliefs of each major world religion.

##### **RELS2 - Bible: History and Literature**

- Upon completion of RELS 2, the student should be able to apply historical, critical and literary methods to the study of the Hebrew Bible and New Testament.

##### **RELS3 - INTRO TO WOMENS SPIRITUALITY**

- Upon completion of RELS 3, the student should be able to analyze and discuss religious symbolism in the spiritual writings of women across cultures.
- Upon completion of RELS 3, the student should be able to articulate the various ways in which women have expressed and enacted their spiritual experiences, insights, and understandings.
- Upon completion of RELS 3, the student should be able to compare and contrast the spiritual values of women across multi-cultural and multireligious perspectives.
- Upon completion of RELS 3, the student should be able to demonstrate a sensitivity to the ways in which gender issues shape women's spirituality.

##### **RELS11 - The Nature of Islam**

- Upon completion of RELS 11, the student should be able to effectively map the historical elements of Islam to practices and beliefs of contemporary Muslim communities.

### **Spanish**

#### **CSLO**

##### **SPAN1A - Beginning Spanish**

- Upon completion of SPAN 1A, students will be able to comprehend spoken Spanish at the beginning level.
- Upon completion of SPAN 1A, students will be able to orally communicate at the beginning level.
- Upon completion of SPAN 1A, students will be able to write at the beginning level.

##### **SPAN1B - Elementary Spanish**

- Upon completion of SPAN 1B, students will be able to comprehend spoken Spanish at the advanced beginning level.
- Upon completion of SPAN 1B, students will be able to orally communicate at the advanced beginning level.
- Upon completion of SPAN 1B, students will be able to write at the advanced beginning level.

##### **SPAN2A - Intermediate Spanish I**

- Upon completion of SPAN 2A, students will be able to comprehend spoken Spanish at the intermediate level.
- Upon completion of SPAN 2A, students will be able to orally communicate at the intermediate level.
- Upon completion of SPAN 2A, students will be able to write at the intermediate level.

##### **SPAN2B - Intermediate Spanish II**

- Upon completion of SPAN 2B, students will be able to comprehend spoken Spanish at the advanced intermediate level.
- Upon completion of SPAN 2B, students will be able to orally communicate at the advanced intermediate level.

- Upon completion of SPAN 2B, students will be able to write at the advanced intermediate level.

### SPAN21 - Spanish Speakers I

- Upon completion of SPAN 21, students will be able to write a composition of at least 500 words demonstrating the correct use of an expanded vocabulary, using advanced grammatical structures, and appropriate register.

### SPAN22 - Spanish Speakers II

- Upon completion of SPAN 22, students will be able to write a composition of at least 650 words demonstrating the correct use of orthography, cohesion between sentences and paragraphs, advanced grammatical structures, and appropriate register.

## Theater Arts

### CSLO

#### THEA1A - Theory/Practice of Acting I

- Upon completion of THEA 1A, the student should be able to participate with creativity and confidence in group theater exercises and improvisations.
- Upon completion of THEA 1A, the student should be able to perform a scripted scene with a partner before a live audience.
- Upon completion of THEA 1A, the student should be able to perform a short monologue at an audition.
- Upon completion of THEA 1A, the student should be able to speak and write constructive criticism of acting in live performance.
- Upon completion of THEA 1A, the student should be able to write a character and play analysis based on the play from which an acting scene has been assigned.

#### THEA1B - Theory/Practice of Acting II

- Upon completion of THEA 1B, the student should be able to demonstrate the techniques learned in the classroom through the completion of written scoring and scene breakdowns.
- Upon completion of THEA 1B, the student should be able to demonstrate the various rehearsal techniques necessary to perform classical theater (pre-1850).
- Upon completion of THEA 1B, the student should be able to perform an extended scene with a partner before a live audience.
- Upon completion of THEA 1B, the student should be able to perform with specificity the characterization required of a character from a genre other than realism.
- Upon completion of THEA 1B, the student should be able to speak and write constructive criticism of acting by other students.

#### THEA3A - Beginning Improvisation

- Upon completion of THEA 3A, the student should be able to apply the rules of improvisation to in-class performances.
- Upon completion of THEA 3A, the student should be able to define vocabulary terms used in Improvisation.
- Upon completion of THEA 3A, the student should be able to demonstrate creative and supportive ensemble participation.

#### THEA3B - Intermediate Improvisation

- Upon completion of THEA 3B, the student should be able to critique a live improvisation and identify the use of accepted rules of engagement.
- Upon completion of THEA 3B, the student should be able to demonstrate the ability to act appropriately and spontaneously to a variety of audio, visual, or written materials without prior rehearsal.
- Upon completion of THEA 3B, the student should be able to synthesize the ideas of others within an improvisation.

#### THEA3C - Improvisation in Performance

- Upon completion of THEA 3C, the student should be able to determine audience appropriate language within an improvisational performance.
- Upon completion of THEA 3C, the student should be able to evaluate in writing effective performance techniques of observed improvisation performances.
- Upon completion of THEA 3C, the student should be able to perform effective vocal and physical performance techniques within an improvisational performance.

#### THEA4 - Modern American Theater

- Upon completing THEA 4, the student should be able to discuss ethnic-theater related issues.
- Upon completing THEA 4, the student should be able to identify and analyze a work of American Theater, arguing its relevance in the American canon.
- Upon completing THEA 4, the student should be able to trace the history of a specific ethnic group and articulate their representation in the canon of American Theater.

### THEA5 - Theater for Young Audiences

- Upon completion of THEA 5, 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.
- Upon completion of THEA 5, the student should be able to articulate the history of children's theater and its role in society, both in terms performance and written work.
- Upon completion of THEA 5, the student should be able to evaluate and analyze a script for rehearsal and performance.
- Upon completion of THEA 5, the student should be able to perform a scene utilizing specific techniques of acting and stagecraft that are unique to theater for young audiences.

### THEA10 - Introduction to Dramatic Arts

- Upon completion of THEA 10, the student should be able to analyze and evaluate the nature of theatre and its role in society.
- Upon completion of THEA 10, the student should be able to articulate a personal response to a live theater performance using proper theater terminology and concepts.
- Upon completion of THEA 10, the student should be able to critically analyze dramatic literature.
- Upon completion of THEA 10, the student should be able to serve as a member of a creative design process, simulating the complexities of creating live performance.

### THEA11 - Stage To Film

- Upon completion of THEA 11, the student should be able to analyze motion pictures utilizing proper film vocabulary.
- Upon completion of THEA 11, the student should be able to compare and contrast stage scripts and film adaptations.
- Upon completion of THEA 11, the student should be able to discuss the purposes of dramatic art (film and theatrical).
- Upon completion of THEA 11, the student will be able to identify important movements and developments in theater and film history.

### THEA12 - Film As Art & Communication

- Upon completion of THEA 12, the student should be able to appraise films and filmmakers in terms of style, genres, narrative, and mise-en-scene.
- Upon completion of THEA 12, the student should be able to compare and contrast a film's relationship with other art forms and media.
- Upon completion of THEA 12, the student should be able to compose a well-organized critical essay evaluating specific films and filmmakers.
- Upon completion of THEA 12, the student will be able to evaluate a film based on historical, biographical, political, or cultural context.

### THEA14 - Bay Area Theatre

- Upon completion of THEA 14, the student should be able to articulate a personal response to a live theater performance using proper theater terminology and concepts.
- Upon completion of THEA 14, the student should be able to identify and view live theatre in the greater Bay Area.
- Upon completion of THEA 14, the student should be able to interpret and devise production and performance options for genre, style, visuals, and sound, for a given text.

### THEA25 - Fundamentals of Stage Speech

- Upon completion of THEA 25, the student should be able to apply basic skills and methods of dialect preparation for performing a role on stage.
- Upon completion of THEA 25, the student should be able to apply elements of the International Phonetic Alphabet as a personal standard in dialect analysis.
- Upon completion of THEA 25, the student should be able to evaluate and analyze a script for cultural and dialect research as if for performance.
- Upon completion of THEA 25, the student should be able to speak effectively in several American and international accents.

### THEA31A - Drama Workshop- Beginning

- Upon completion of THEA 31A, the student should be able to create and dramatize the behavioral life of a character in rehearsal and performance using basic acting skills.
- Upon completion of THEA 31A, the student should be able to demonstrate a responsible work ethic within a professional framework of collaboration with directors and fellow actors in rehearsal and performance.
- Upon completion of THEA 31A, the student should be able to evaluate and analyze a script for rehearsal and performance.
- Upon completion of THEA 31A, the student should be able to use basic production elements such as props, costumes, and sets to create the world of a play.

### THEA31B - Drama Workshop- Intermediate

- Upon completion of THEA 31B, the student should be able to assist in the design of basic production elements such as props, costumes, and sets to create the world of a play.

- Upon completion of THEA 31B, the student should be able to create and dramatize the behavioral life of a character in rehearsal and performance using intermediate acting skills.
- Upon completion of THEA 31B, the student should be able to demonstrate a responsible work ethic within a professional framework of collaboration with directors and fellow actors in rehearsal and performance.
- Upon completion of THEA 31B, the student should be able to evaluate and analyze a script for rehearsal and performance.

### THEA31C - Drama Workshop- Advanced

- Upon completion of THEA 31C, the student should be able to create and dramatize the behavioral life of a character in rehearsal and performance using advanced acting skills.
- Upon completion of THEA 31C, the student should be able to assist in the design of basic production elements such as props, costumes, and sets to create the world of a play.
- Upon completion of THEA 31C, the student should be able to demonstrate a responsible work ethic within a professional framework of collaboration with directors and fellow actors in rehearsal and performance.
- Upon completion of THEA 31C, the student should be able to evaluate and analyze a script for rehearsal and performance.

### THEA31D - Drama Workshop- Directing

- Upon completion of THEA 31D, the student should be able to create the staging of a play using basic principles of blocking.
- Upon completion of THEA 31D, the student should be able to demonstrate a responsible work ethic within a professional framework of collaboration with student actors and fellow directors in rehearsal and performance.
- Upon completion of THEA 31D, the student should be able to design production elements such as props, costumes, and sets to create the world of a play, in collaboration with the technical director.
- Upon completion of THEA 31D, the student should be able to evaluate and analyze a script for rehearsal and performance using basic principles of directing.
- Upon completion of THEA 31D, the student should be able to interpret the behavioral life of characters in rehearsal and performance using basic directing skills.

### THEA39A - Musical Theater Workshop-Begin

- Upon completion of THEA 39A, the student will be able to create a professional portfolio for auditioning with sheet music.
- Upon completion of THEA 39A, the student will be able to demonstrate a responsible work ethic within a professional framework of collaboration in rehearsal and performance.
- Upon completion of THEA 39A, the student will be able to examine major genres and contributors of the American Musical Theater.
- Upon completion of THEA 39A, the student will be able to prepare, rehearse and perform a duet scene/song from a musical.
- Upon completion of THEA 39A, the student will be able to research and analyze the character, scene, song and show of a performed musical theater solo.
- Upon completion of THEA 39A, the student will be able to synthesize basic acting, movement and singing skills to create a truthful song performance.

### THEA39B - Musical Theater Workshop-Inter

- Upon completion of THEA 39B, the student will be able to create a professional portfolio for auditioning with sheet music, resume and headshot/photo.
- Upon completion of THEA 39B, the student will be able to demonstrate a responsible work ethic within a professional framework of collaboration in rehearsal and performance.
- Upon completion of THEA 39B, the student will be able to examine major genres and contributors of the American Musical Theater.
- Upon completion of THEA 39B, the student will be able to synthesize intermediate acting, movement and singing skills to create a truthful song performance.

### THEA39C - Musical Theater Workshop-Advan

- Upon completion of THEA 39C, the student will be able to create a professional portfolio for auditioning with sheet music, resume and headshot/photo.
- Upon completion of THEA 39C, the student will be able to demonstrate a responsible work ethic within a professional framework of collaboration in rehearsal and performance.
- Upon completion of THEA 39C, the student will be able to examine major genres and contributors of the American Musical Theater.
- Upon completion of THEA 39C, the student will be able to synthesize advanced acting, movement and singing skills to create a truthful song performance.

### THEA47A - Perform in Prod: Intro Live

- Upon completion of THEA 47A, the student will be able to apply physical and vocal techniques in rehearsal and performance.
- Upon completion of THEA 47A, the student will be able to identify and explain the responsibilities of an actor in a play.
- Upon completion of THEA 47A, the student will be able to rehearse and perform a characterization that is believable, accurate, consistent and energized in a play.

- Upon completion of THEA 47A, the student will be able to research, describe and evaluate the historical and literary elements of a play.
- Upon completion of THEA 47A, the student will be able to score an acting scene, describing beats of action, objectives, obstacles and tactics, and emotional shifts.
- Upon completion of THEA 47A, the student will be able to work constructively with fellow actors and with staff in a theatrical production.

#### **THEA47B - Performance in Prod: Beginning**

- Upon completion of THEA 47B, the student should be able to analyze the text and given character to create a live performance.
- Upon completion of THEA 47B, the student should be able to determine the appropriate theatrical style and conventions for character development (farce, realism, Brecht, post-modern presentationalism, etc.).
- Upon completion of THEA 47B, the student should be able to 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.
- Upon completion of THEA 47B, the student should be able to use two rehearsal techniques for creating character and making acting choices (Adler, Stanislavski, Hagen, Meisner, improvisation, Epic, etc.).

#### **THEA47C - Performance in Prod: Intermed.**

- Upon completion of THEA 47C, the student should be able to analyze the play to serve as support for fellow cast members.
- Upon completion of THEA 47C, the student should be able to build collaboration and trust with ensemble members by serving as a positive and professional example during note giving and creative staff interactions.
- Upon completion of THEA 47C, the student should be able to develop a personalized, systematic, approach for memorization.
- Upon completion of THEA 47C, the student should be able to make complex, creative, and bold acting choices during the rehearsal process as a means of creative exploration.
- Upon completion of THEA 47C, the student should be able to research, practice, and prepare a series of personal physical and vocal warm-ups, to be completed at each rehearsal and performance.

#### **THEA47D - Performance in Prod: Advanced**

- Upon completion of THEA 47D, the student should be able to create a leading role character, and perform this role in a live theatre event.
- Upon completion of THEA 47D, the student should be able to create a small outreach event to bring theater to local organizations, schools, and community centers.
- Upon completion of THEA 47D, the student should be able to demonstrate professionalism in community outreach events and public publicity endeavors to advertise the program and production to local community.
- Upon completion of THEA 47D, the student should be able to develop and create a physical and vocal expression of a character.
- Upon completion of THEA 47D, the student should be able to integrate production elements from director, choreographer, and musical director feedback.
- Upon completion of THEA 47D, the student should be able to lead other cast members in exercises and warm-ups valuable to the rehearsal process.
- Upon completion of THEA 47D, the student should be able to work at an accelerated pace to create character and perfect memorization.

#### **THEA48A - Tech Theater Prod- Beginning**

- Upon completion of THEA 48A, the student should be able to recognize and use backstage and shop terminology, tools, materials and techniques.
- Upon completion of THEA 48A, the student should be able to serve as a member of the running crew of a play or musical.
- Upon completion of THEA 48A, the student should be able to work collaboratively with designers, technicians, and other theatre personnel.

#### **THEA48B - Tech Theater Prod-Intermediate**

- Upon completion of THEA 48B, 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.
- Upon completion of THEA 48B, the student should be able to serve in an entry-level leadership position or as a key member of a crew of a theatrical performance.
- Upon completion of THEA 48B, the student should be able to work and problem solve in one or more areas of technical theatre.
- Upon completion of THEA 48B, the student should be able to work collaboratively with designers, technicians, and other theatre personnel.

#### **THEA48C - Tech Theater Prod- Advanced**

- Upon completion of THEA 48C, 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.
- Upon completion of THEA 48C, the student should be able to work as a designer or assistant designer at a beginning or intermediate level.
- Upon completion of THEA 48C, the student should be able to work collaboratively with designers, technicians, and other theatre personnel.

### THEA48D - Tech Theater Prod- Management

- Upon completion of THEA 48D, the student should be able to work collaboratively with designers, technicians, and other theatre personnel.
- Upon completion of THEA 48D, the student should be able to work in a managerial or supervisory role in a technical production area of a theatre company or a production.

### THEA50 - Stagecraft

- Upon completion of THEA 50, the student should be able to analyze technical theatre production problems; evaluate alternatives and recommend solutions.
- Upon completion of THEA 50, the student should be able to recognize and use at a fundamental level terminology, tools, materials, and processes and techniques, typically found in a theatrical environment.
- Upon completion of THEA 50, the student should be able to recognize theatrical crew organization, and perform basic tasks typically associated with lighting, sound, scenic, or costume crews.
- Upon completion of THEA 50, the student should be able to work collaboratively with designers, technicians, and other theatre personnel.

### THEA50L - Introduction to Stage Lighting

- Upon completion of THEA 50L, students should be able to evaluate the effective use of lighting in a production.
- Upon completion of THEA 50L, the student should be able to 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.
- Upon completion of THEA 50L, the student should be able to produce all technical and creative paperwork for a lighting plot for an assigned production or repertory plot.
- Upon completion of THEA 50L, the student should be able to recognize and use lighting control and lighting terminology, tools, materials and techniques.

### THEA51 - Introduction to Costume Design

- Upon completion of THEA 51, the student will be able to analyze a play script to create a design concept.
- Upon completion of THEA 51, the student will be able to evaluate the effective use of costume in production.
- Upon completion of THEA 51, the student will be able to use historical research methods in creating a costume design.
- Upon completion of THEA 51, the student will be able to utilize costume construction methods to execute a costume.

### THEA52 - Introduction to Design

- Upon completion of THEA 52, the student should be able to analyze a script and create a scenic, lighting, sound, or costume design for an assigned production.
- Upon completion of THEA 52, the student should be able to evaluate the effectiveness of a scenic, lighting, sound, or costume design in a given production at a fundamental level.
- Upon completion of THEA 52, the student should be able to produce fundamental technical and creative paperwork for a scenic, lighting, costume, or sound design for an assigned production.
- Upon completion of THEA 52, the student should be able to recognize and use theatrical design terminology, tools, materials and techniques.

### THEA53 - Script Analysis

- Upon completion of THEA 53, the student should be able to compare a live theatre production to it's original script, identifying artistic choices that support or distract from the original script.
- Upon completion of THEA 53, the student should be able to evaluate scripts using a variety of different critical analysis methods: Formalistic, Historical, Genre, Socio-Political, Mythic-Psychological.
- Upon completion of THEA 53, the student should be able to identify production aspects within a script that might influence performance, costume, scenic, sound, lighting, or props.

### THEA57A - Performance in Production-Intr

- Upon completion of THEA 57A, the student should be able to create and dramatize the behavioral life of a character during rehearsal and musical theater performance.
- Upon completion of THEA 57A, the student should be able to evaluate and analyze a libretto and vocal score for rehearsal and musical performance.
- Upon completion of THEA 57A, the student should be able to use characterization, singing technique and/or dance.

### THEA57B - Performance in Prod. Beginning

- Upon completion of THEA 57B, the student should be able to complete a thorough and written character analysis, completed with imagined and specified historical background of the character.
- Upon completion of THEA 57B, the student should be able to use at least two rehearsal techniques for creating character and making acting choices.

**THEA57C - Performance in Prod.- Intermed**

- Upon completion of THEA 57C, the student should be able to analyze the musical libretto to serve as support for fellow cast members.
- Upon completion of THEA 57C, the student should be able to demonstrate characterization choices through physical movement such as body language and choreography.
- Upon completion of THEA 57C, the student should be able to develop a personalized, systematic approach for memorization.
- Upon completion of THEA 57C, the student should be able to research, practice, and prepare a series of personal physical and vocal warm-ups.

**THEA57D - Performance in Prod.-Advanced**

- Upon completion of THEA 57D, the student should be able to create a leading role character and perform this role in a live theater event.
- Upon completion of THEA 57D, the student should be able to create and develop a vocal expression of a character.
- Upon completion of THEA 57D, the student should be able to express a professional work ethic through collaboration, respect, and a positive attitude.
- Upon completion of THEA 57D, the student should be able to integrate performance notes from the director, choreographer, and musical director at an accelerated pace.
- Upon completion of THEA 57D, the student should be able to memorize libretto at an accelerated deadline.

**BSSL****Anthropology****CSLO****ANTR1 - Biological Anthropology**

- Upon completion of ANTR 1, students will be able to deconstruct the biological concept of "race."
- Upon completion of ANTR 1, students will be able to describe and identify fossil hominid species.
- Upon completion of ANTR 1, students will be able to explain how natural selection works.

**ANTR1L - Biological Anthropology Lab**

- Upon completion of ANTR 1L, students will be able to apply the scientific method to research in anthropology.
- Upon completion of ANTR 1L, students will be able to deconstruct the biological concept of race.
- Upon completion of ANTR 1L, students will be able to identify fossil hominid species.

**ANTR2 - Introduction to Archaeology**

- Upon completion of ANTR 2, students will be able to apply the methods, tools, and technical skills of archaeological research.
- Upon completion of ANTR 2, students will be able to describe the legal/ethical framework for archaeology.
- Upon completion of ANTR 2, students will be able to use theory to interpret archaeological data.

**ANTR2L - Archaeology Field Lab**

- Upon completion of ANTR 2L, students will be able to collect, measure, photograph, and curate common archaeological materials and artifacts.
- Upon completion of ANTR 2L, students will be able to demonstrate the sequence and procedures for archaeological field survey and excavation.
- Upon completion of ANTR 2L, students will be able to use theory to interpret archaeological data.

**ANTR3 - Cultural Anthropology**

- Upon completion of ANTR 3, students will be able to analyze cultural practices from a variety of anthropological and theoretical perspectives.

**ANTR4 - Language and Culture**

- Upon completion of ANTR 4, students will be able to explain how the relationship between language and culture has social consequences.
- Upon completion of ANTR 4, students will be able to explain the anthropological approach to language and communication.
- Upon completion of ANTR 4, students will be able to identify the structural properties of language.

**ANTR5 - Cultures of the U.S. in Global**

- Upon completion of ANTR 5, students will be able to analyze the pattern of U.S. government responses to successive immigrant groups through its changing immigration policies.
- Upon completion of ANTR 5, students will be able to deconstruct the biological concept of race.

#### **ANTR6 - Anthropology of Sex and Gender**

- Upon completion of ANTR 6, students will be able to analyze cross-cultural notions of gender and gender roles from a variety of anthropological and theoretical perspectives.
- Upon completion of ANTR 6, students will be able to deconstruct the biological concept of "sex."
- Upon completion of ANTR 6, students will be able to describe and demonstrate how the relationship between sex, gender and culture has social consequences.

#### **ANTR7 - Native American Cultures**

- Upon completion of ANTR 7, students will be able to define the current social, economic, education and political issues and goals of contemporary tribes.
- Upon completion of ANTR 7, students will be able to explain the psychological and anthropological concepts behind prejudice, discrimination, and racism.
- Upon completion of ANTR 7, students will develop research skills with special emphasis on interdisciplinary studies.

#### **ANTR12 - Magic/Religion/Witchcraft/Heal**

- Upon completion of ANTR 12, students will be able to describe the role and responsibility of religious specialists.
- Upon completion of ANTR 12, students will be able to identify the components of various religious rituals.
- Upon completion of ANTR 12, students will be able to interpret symbolic cultural practices through various anthropological and theoretical perspectives.

#### **ANTR13 - Intro to Forensic Anthropology**

- Upon completion of ANTR 13, students will be able to describe the legal and ethical framework of forensic anthropology.
- Upon completion of ANTR 13, students will be to analyze human bones for identification of sex, ancestry, age, trauma and stature.

### **Business**

#### **CSLO**

##### **BUSN1A - Financial Accounting**

- Upon completion of BUSN 1A, the student will be able to calculate and analyze current ratio, debt ratio, and gross profit ratio.
- Upon completion of BUSN 1A, the student will be able to identify and name different components of a balance sheet and income statement.

##### **BUSN1B - Managerial Accounting**

- Upon completion of BUSN 1B, the student will be able to analyze and calculate the impact of changes in business income using cost volume profit analysis and construct contribution margin statements.
- Upon completion of BUSN 1B, the student will be able to identify and categorize different cost classifications for fixed, variable, and mixed costs.
- Upon completion of BUSN 1B, the student will be able to prepare operating and financial budgets and analyze variances.

##### **BUSN18 - Business Law**

- Upon completion of BUSN 18, the student will be able to compare and contrast alternative legal theories as they apply to a case.
- Upon completion of BUSN 18, the student will be able to critique legal decisions made by the courts.
- Upon completion of BUSN 18, the student will be able to evaluate the dynamics behind multinational enterprises.
- Upon completion of BUSN 18, the student will be able to formulate legal conclusions based on sound legal reasoning.

##### **BUSN20 - International Business**

- Upon completion of BUSN 20, the student will be able to compare and contrast the financial implications of international trade.
- Upon completion of BUSN 20, the student will be able to describe procedures and documentation necessary to import a product from a foreign country.

##### **BUSN30 - Business Ethics and Society**

- Upon completion of BUSN 30, the student will be able to examine potential conflicts of interest within an organization which raise ethical considerations.

- Upon completion of BUSN 30, the student will be able to recognize the process for resolving an ethical dilemma.
- Upon completion of BUSN 30, the student will be able to analyze the role of American businesses in influencing ethical behavior and social responsibility in global markets.

### **BUSN33 - Personal Financial Management**

- Upon completion of BUSN 33, the student will be able to compare the common types of consumer credits including credit cards and installment loans.
- Upon completion of BUSN 33, the student will be able to develop a comprehensive personal financial plan.
- Upon completion of BUSN 33, the student will be able to explain fundamental economic considerations that affect decision-making in personal finance.
- Upon completion of BUSN 33, the student will be able to identify and categorize the financial statement elements associated with the balance sheet and income statement.

### **BUSN40 - Introduction to Business**

- Upon completion of BUSN 40, the student will be able to communicate the impact of compliance-based and integrity-based ethics codes on the role of business in a market economy.
- Upon completion of BUSN 40, the student will be able to compare the three primary business formations used by privately held American businesses.
- Upon completion of BUSN 40, the student will be able to contrast management and leadership strategies in the function areas of management, marketing, finance, human resources and production.

### **BUSN48 - Human Relations in Org.**

- Upon completion of BUSN 48, the student will be able to analyze the primary leadership styles.
- Upon completion of BUSN 48, the student will be able to compare and contrast the concepts of work, worth and leisure in the United States.
- Upon completion of BUSN 48, the student will be able to describe the characteristics of change.
- Upon completion of BUSN 48, the student will be able to evaluate organizational strategies of motivation.

### **BUSN51 - General Accounting**

- Upon completion of BUSN 51, the student will be able to accurately record business transactions using journal entries.
- Upon completion of BUSN 51, the student will be able to prepare a basic Income Statement and Balance Sheet for a merchandising company.

### **BUSN52 - Business Communications**

- Upon completion of BUSN 52, the student should be able to evaluate the quality of business communication.
- Upon completion of BUSN 52, the student should be able to plan for a job interview.
- Upon completion of BUSN 52, the student should be able to solve a variety of communication problems.

### **BUSN53 - Business Correspondence**

- Upon completion of BUSN 53, the student should be able to evaluate the quality of business correspondence.
- Upon completion of BUSN 53, the student should be able to explain the writing process for business professionals.
- Upon completion of BUSN 53, the student should be able to produce a variety of business written materials.

### **BUSN55 - Business Mathematics**

- Upon completion of BUSN 55, the student will be able to identify and interpret trends over a period using percentage increase or decrease.
- Upon completion of BUSN 55, the student will be able to use percentages to calculate period over period increase or decrease in a given set of data.

### **BUSN56 - Introduction to Management**

- Upon completion of BUSN 56, the student will be able to communicate the roles managers play in organizations.
- Upon completion of BUSN 56, the student will be able to compare and contrast the primary managerial functions.
- Upon completion of BUSN 56, the student will be able to model the primary state laws that govern managerial decisions.

### **BUSN58 - Small Business Management**

- Upon completion of BUSN 58, the student will be able to break down the financial requirements and risks for starting a business.
- Upon completion of BUSN 58, the student will be able to contrast the advantages and disadvantages of small business ownership.
- Upon completion of BUSN 58, the student will be able to develop a marketing strategy for a small business launch.

**BUSN61 - Quickbooks Accounting**

- Upon completion of BUSN 61, the student will be able to complete end-of-period accounting procedures.
- Upon completion of BUSN 61, the student will be able to correctly reconcile the bank statement.
- Upon completion of BUSN 61, the student will be able to record depreciation and enter the adjusting entries required for accrual-basis accounting.
- Upon completion of BUSN 61, the student will be able to record owner's equity transactions.

**BUSN65 - Federal Income Tax Accounting**

- Upon completion of BUSN 65, the student will be able to describe the differences between an average and marginal tax rate.
- Upon completion of BUSN 65, the student will be able to explain and use the expanded income tax formula to determine a tax liability or refund.
- Upon completion of BUSN 65, the student will be able to identify and explain the general dependency tests as well as the tests for a dependent child and dependent relative.

**BUSN77 - FIN.&INS. PROCDRS. FOR MED OFC**

- Upon completion of BUSN 77, the student will be able to analyze a health care financial problem and make appropriate calculations to solve the problem permanently.
- Upon completion of BUSN 77, the student will be able to articulate key differences between health care financial systems and those of other types of business organizations.
- Upon completion of BUSN 77, the student will be able to differentiate between a third party payer systems from a 'direct-pay' system and make calculations to determine the most beneficial revenue source.
- Upon completion of BUSN 77, the student will be able to perform a breakeven analysis and calculate the correct number of diagnostic tests to achieve breakeven point in both quantity and in dollars.

**BUSN88 - Human Resources Management**

- Upon completion of BUSN 88, the student will be able to analyze the typical non-exempt compensation strategies.
- Upon completion of BUSN 88, the student will be able to compare and contrast workplace security options.
- Upon completion of BUSN 88, the student will be able to describe the process of human resources planning.
- Upon completion of BUSN 88, the student will be able to discuss the role of unions in employee relations.

**Early Care and Education****CSLO****ECE40 - Social & Emotional Foundations**

- Upon completion of ECE 40, students will be able to identify personal strengths and the professional role in supporting the positive development of children's social and emotional well-being.

**ECE50 - Early Childhood Principles**

- Upon completion of ECE 50, students will be able to compare and contrast historical and current early childhood education perspectives, theories, and program types and philosophies.
- Upon completion of ECE 50, students will be able to describe the role of the early childhood educator, including ethical conduct and professional pathways.
- Upon completion of ECE 50, students will be able to examine a variety of observation, reflection, guidance and interaction strategies to increase children's social competence and promote a caring classroom community.
- Upon completion of ECE 50, students will be able to identify the underlying theoretical perspective in forming a professional philosophy.
- Upon completion of ECE 50, students will be able to identify quality in early education programs related to environment, curriculum, interactions and teaching strategies.

**ECE54 - Child Health, Safety & Nutr.**

- Upon completion of ECE 54, students will 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.
- Upon completion of ECE 54, students will be able to identify health, safety and environmental risks in children's programs.

**ECE56 - Child Growth and Development**

- Upon completion of ECE 56, students will be able to apply knowledge of development and major theoretical frameworks to child observations.
- Upon completion of ECE 56, students will be able to describe development of children from conception through adolescence in the physical, social, emotional and cognitive domains.

- Upon completion of ECE 56, students will be able to identify cultural, economic, political and historical contexts that impact children's development.

### **ECE60 - Child with Exceptional Needs**

- Upon completion of ECE 60, students will be able to explain the terminology, systems, laws and services that addresses children with exceptionalities and recommend supports for the child and their family.
- Upon completion of ECE 60, students will be able to use observation to integrate curriculum goals and objectives across developmental domains, content areas, and routines for children with special needs.

### **ECE62 - Child, Family and Community**

- Upon completion of ECE 62, students will 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.
- Upon completion of ECE 62, students will be able to assess how their own values, goals, family history and life experiences, impact their relationships with children and families.
- Upon completion of ECE 62, students will be able to describe socialization of the child focusing on the interrelationship of family, school, community and society.
- Upon completion of ECE 62, students will be able to identify the educational, cultural, linguistic, political, and socioeconomic impacts on children and families.
- Upon completion of ECE 62, students will be able to describe strategies that empower families and encourage family involvement in their children's development and education.

### **ECE63 - Early Childhood Curriculum**

- Upon completion of ECE 63, students will 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.
- Upon completion of ECE 63, students will be able to apply theories of children's learning and development to key curricular content areas, through documentation and evaluation of curriculum.
- Upon completion of ECE 63, students will be able to students shall use reflective practices to evaluate the effectiveness of early childhood curriculum, classrooms, and teaching strategies.

### **ECE65 - Administration I: Programs**

- Upon completion of ECE 65, students will be able to apply administration skills in various types of early care and education programs.
- Upon completion of ECE 65, students will be able to evaluate components of quality programs, facilities and operations.
- Upon completion of ECE 65, students will be able to recognize effective strategic and fiscal planning.

### **ECE67 - Infant and Toddler Dev.**

- Upon completion of ECE 67, students will be able to articulate responsive, reciprocal and respectful caregiving.
- Upon completion of ECE 67, students will be able to intentionally design inclusive, culturally and linguistically appropriate curriculum to promote positive development for all young children, based on child development, observation and reflection.
- Upon completion of ECE 67, students will be able to 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.

### **ECE68 - Admini II: Personnel & Lead**

- Upon completion of ECE 68, students will be able to compare and contrast the legal requirements with the ethical aspects of directing staff in an early child development program.
- Upon completion of ECE 68, students will be able to demonstrate effective practices for managing and leading staff, and administering early care and education programs.
- Upon completion of ECE 68, students will be able to establish professional relationships, and facilitate collaboration and communication between colleagues, families, and stakeholders.
- Upon completion of ECE 68, students will be able to implement ongoing professional development plans based on evaluation of staff and administrator needs.

### **ECE69 - Child Study: Observation**

- Upon completion of ECE 69, students will be able to complete systematic observations and assessments using a variety of data collection methods to inform environment design, interactions, and curriculum.
- Upon completion of ECE 69, students will be able to describe and evaluate the characteristics, strengths, and limitations of common assessment tools with all children's developmental, cultural, and linguistic characteristics.
- Upon completion of ECE 69, students will be able to discuss the role of partnerships with families and other professionals in utilizing interpretations of observational and assessment data.

### **ECE74 - Child Guidance**

- Upon completion of ECE 74, students will be able to develop effective strategies to support children's development of self-control, self-motivation and positive self-esteem in children ages birth to eight.
- Upon completion of ECE 74, students will be able to identify effective strategies to encourage positive social interactions and promote conflict resolution between children ages birth to eight.

**ECE78 - Language Development**

- Upon completion of ECE 78, students will be able to describe the role of culture and environment on children's language and literacy development.
- Upon completion of ECE 78, students will be able to identify specific strategies to support the language and literacy development of dual language learners.
- Upon completion of ECE 78, students will be able to identify the stages of both oral and written language development in children birth to age 8.

**ECE79 - Teaching in a Diverse Society**

- Upon completion of ECE 79, students will be able to evaluate classroom environments, materials, and approaches through an anti-bias lens for developmental, cultural, and linguistic appropriateness.
- Upon completion of ECE 79, students will be able to evaluate the impact of personal experiences, biases and social identity on teaching effectiveness.
- Upon completion of ECE 79, students will be able to evaluate the relationship between one's own experiences and the development of personal bias.
- Upon completion of ECE 79, students will be able to identify strategies to act upon issues of social injustice and bias that occur in classrooms.
- Upon completion of ECE 79, students will be able to 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.

**ECE83 - Adult Mentoring & Supervision**

- Upon completion of ECE 83, students will be able to create a professional portfolio.
- Upon completion of ECE 83, students will be able to demonstrate competency in communication and reflective practices when working with diverse adult populations.
- Upon completion of ECE 83, students will be able to students will develop a personal ECE philosophy after reviewing ECE philosophies and program approaches.

**ECE87 - Quality Environments Infants**

- Upon completion of ECE 87, students will be able to demonstrate strategies to promote healthy relationships in the care and education of infants and toddlers.
- Upon completion of ECE 87, students will be able to evaluate infant and toddler curriculum and environments based on observation, documentation and reflection.
- Upon completion of ECE 87, students will be able to summarize the essential policies and practices of quality infant and toddler programs.

**ECE90 - Practicum-Supervised Exp.**

- Upon completion of ECE 90, students will be able to critically assess one's own teaching experiences to reflect and guide practice.

**ECE91 - Adaptive Curriculum Ex. Needs**

- Upon completion of ECE 91, students will be able to students will use observation to integrate curriculum goals and objectives across developmental domains, content areas, and routines for children with special needs.

**ECE95 - Work Experience**

- Upon completion of ECE 95, students will be able to complete and implement objectives that improves the child learning environment.
- Upon completion of ECE 95, students will be able to students will demonstrate developmentally appropriate practices in their work with young children.

**ECE96 - Work Experience Seminar**

- Upon completion of ECE 96, students will be able to utilize the code of ethics in making appropriate decisions for the children and families.

**Economics****CSLO****ECON1 - Principles of Microeconomics**

- Upon completion of ECON 1, students will 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.
- Upon completion of ECON 1, students will be able to define opportunity cost and marginal analysis and explain how they relate to choices of individuals in the economy.
- Upon completion of ECON 1, students will be able to define different market structures and explain how firms optimize their fiscal objectives in these markets.

**ECON2 - Principles of Macroeconomics**

- Upon completion of ECON 2, students will 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.
- Upon completion of ECON 2, students will be able to define key economic indicators, including GDP, CPI, and Unemployment Rate, and use these quantitative measures to analyze the economy.
- Upon completion of ECON 2, students will be able to describe monetary and fiscal policies and explain how they affect short-term economic fluctuations.

### ECON10 - General Economics

- Upon completion of ECON 10, students will 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.
- Upon completion of ECON 10, students will be able to define opportunity cost and marginal analysis and explain how they relate to choices of individuals in the economy.
- Upon completion of ECON 10, students will be able to define key economic indicators, including GDP, CPI, and Unemployment Rate, and use these quantitative measures to analyze the economy.

## Global Studies

### CSLO

#### GS1 - Introduction to Global Studies

- Upon completion of GS 1, the student should be able to analyze a current event using a variety of international news sources.
- Upon completion of GS 1, the student should be able to apply world systems theory to explain global phenomena.
- Upon completion of GS 1, the student should be able to identify concrete examples of the various ways that culture is globalized.
- Upon completion of GS 1, the student should be able to produce an academic document which connects sociological research methods to globalization theory.

#### GS2 - Global Issues

- Upon completion of GS 2, the student should be able to describe how global issues are often narrowly understood in terms of a nation's domestic interests but must also be understood transnationally.
- Upon completion of GS 2, the student should be able to research and analyze the causes of a global issue, providing an assessment of the best ideas on how to solve it.

## History

### CSLO

#### HIST1 - Western Civilization to 1600

- Upon completion of HIST 1, students will be able to explain the major political, economic, social, and cultural developments in Western Civilization before 1600, their causes and effects, and their historical significance.
- Upon completion of HIST 1, students will be able to explain the significance of major discoveries and developments in technology, science, art, architecture, and literature.
- Upon completion of HIST 1, students will be able to identify and distinguish the physical and political geography of Western Civilization.
- Upon completion of HIST 1, students will be able to interpret primary and secondary sources and to compose an argument which uses them, as appropriate, for support.

#### HIST2 - Western Civilization Since 1600

- Upon completion of HIST 2, students will 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.
- Upon completion of HIST 2, students will be able to explain the significance of major discoveries and developments in technology, science, art, architecture, and literature.
- Upon completion of HIST 2, students will be able to identify and distinguish the physical and political geography of Western Civilization.
- Upon completion of HIST 2, students will be able to interpret primary and secondary sources and to compose an argument which uses them, as appropriate, for support.

#### HIST7 - US Hist. Through Reconstruction

- Upon completion of HIST 7, students will be able to analyze major political trends, attitudes, conflicts, and events - including both mainstream and reform efforts - and explain their historical significance.
- Upon completion of HIST 7, students will be able to explain America's growth in a global context.
- Upon completion of HIST 7, students will be able to explain the major social, cultural, economic, and technological developments in United States History through Reconstruction, their causes and effects, and their historical significance.
- Upon completion of HIST 7, students will be able to explain U.S. History through analytical categories of race, class, gender, and ethnicity.

- Upon completion of HIST 7, students will be able to interpret primary and secondary sources and to compose an argument which uses them, as appropriate, for support.

### HIST8 - US Hist. Post-Reconstruction

- Upon completion of HIST 8, students will be able to analyze major political trends, attitudes, conflicts, and events - including both mainstream and reform efforts - and to explain their historical significance.
- Upon completion of HIST 8, students will be able to explain America's growth in a global context.
- Upon completion of HIST 8, students will be able to explain the major social, cultural, economic, and technological developments in United States History since Reconstruction, their causes and effects, and their historical significance.
- Upon completion of HIST 8, students will be able to explain U.S. History through analytical categories of race, class, gender, and ethnicity.
- Upon completion of HIST 8, students will be able to interpret primary and secondary sources and to compose an argument which uses them, as appropriate, for support.

### HIST14 - American Cultures of Cali.

- Upon completion of HIST 14, students will be able to explain the historical significance of geography and environment in California.
- Upon completion of HIST 14, students will be able to explain the history of California through analytical categories of race, class, gender, ethnicity, and nationality.
- Upon completion of HIST 14, students will be able to explain the impact of California history on the economic, political, social, and cultural development of the United States.
- Upon completion of HIST 14, students will be able to explain the major political, economic, social, and cultural developments, their causes and effects, and their historical significance.
- Upon completion of HIST 14, students will be able to interpret primary and secondary sources and to compose an argument which uses them, as appropriate, for support.

### HIST25 - American Indian History

- Successful completion of this course will enable students to infer kinship rules for Plains Indian societies.

### HIST28 - History of American West

- Upon completion of HIST 28, students will be able to explain the historical significance of geography and environment in the American West.
- Upon completion of HIST 28, students will be able to explain the historical significance of the federal government in the American West.
- Upon completion of HIST 28, students will be able to explain the history of the American West through analytical categories of race, class, gender, ethnicity, and nationality.
- Upon completion of HIST 28, students will be able to explain the impact of western expansion on the economic, political, social, and cultural development of the United States.
- Upon completion of HIST 28, students will be able to interpret primary and secondary sources and to compose an argument which uses them, as appropriate, for support.

### HIST32 - U.S. Women's History

- Upon completion of HIST 32, students will be able to demonstrate skills in speaking and writing effectively while incorporating theoretical perspectives in Women's History and research methodology.
- Upon completion of HIST 32, students will be able to explain the significant social, cultural, and economic developments and their impact upon women's lives.
- Upon completion of HIST 32, students will be able to interpret primary and secondary sources.

## Library Skills

### CSLO

#### LIBR1 - Working with Sources

- Upon completion of LIBR 1, the student should be able to examine sources for characteristics that will impact its value as a research source; such as, currency, authorship, authority, relevance, bias, and purpose.
- Upon completion of LIBR 1, the student should be able to formulate citations in the appropriate format and style.
- Upon completion of LIBR 1, the student should be able to identify main ideas to be extracted from the information gathered.

#### LIBR4 - College Research Techniques

- Upon completion of LIBR 4, the student should be able to construct a search statement using topic relevant vocabulary in order to search with maximum effectiveness.
- Upon completion of LIBR 4, the student should be able to examine sources for characteristics that will impact its value as a research source; such as, currency, authorship, authority, relevance, bias, and purpose.

- Upon completion of LIBR 4, the student should be able to formulate citations in the appropriate format and style.

### LIBR5 - College Research and Databases

- Upon completion of LIBR 5, the student should be able to construct a search statement using topic relevant vocabulary in order to search with maximum effectiveness.
- Upon completion of LIBR 5, the student should be able to examine sources for characteristics that will impact its value as a research source; such as, currency, authorship, authority, relevance, bias, and purpose.
- Upon completion of LIBR 5, the student should be able to formulate citations in the appropriate format and style.

### LIBR6 - Research in Special Subjects

- Upon completion of LIBR 6, the student should be able to construct a search statement using topic relevant vocabulary in order to search with maximum effectiveness.
- Upon completion of LIBR 6, the student should be able to examine sources for characteristics that will impact its value as a research source; such as, currency, authorship, authority, relevance, bias, and purpose.
- Upon completion of LIBR 6, the student should be able to formulate citations in the appropriate format and style.

### LIBR7 - The Open Web & Search Engines

- Upon completion of LIBR 7, the student should be able to construct a search statement using topic relevant vocabulary in order to search with maximum effectiveness.
- Upon completion of LIBR 7, the student should be able to examine sources for characteristics that will impact its value as a research source; such as, currency, authorship, authority, relevance, bias, and purpose.
- Upon completion of LIBR 7, the student should be able to formulate citations in the appropriate format and style.

### LIBR8 - Research & Info. Literacy

- Upon completion of LIBR 8, the student should be able to construct a search statement using topic relevant vocabulary in order to search with maximum effectiveness.
- Upon completion of LIBR 8, the student should be able to examine sources for characteristics that will impact its value as a research source; such as, currency, authorship, authority, relevance, bias, and purpose.
- Upon completion of LIBR 8, the student should be able to formulate citations in the appropriate format and style.

## Marketing

### CSLO

#### MKTG50 - Introduction to Marketing

- 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.

#### MKTG56 - Marketing Strategies

- 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.
- 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.

#### MKTG60 - Retail Store Management

- Upon completion of MKTG 60, the student will be able to analyze the fundamentals of customer service.
- Upon completion of MKTG 60, the student will be able to compare and contrast the primary pricing strategies.
- Upon completion of MKTG 60, the student will be able to describe the principles of merchandise assortments.
- Upon completion of MKTG 60, the student will be able to list the tasks involved in site selection.

#### MKTG61 - Professional Selling

- Upon completion of MKTG 61, students will be able to incorporate the techniques of persuasion.
- Upon completion of MKTG 61, the student will be able to evaluate the consumers reasoning process when making a buying decision.
- Upon completion of MKTG 61, the student will be able to express the functions performed by sales people in the United States economic system.

**MKTG64 - Introduction to Advertising**

- Upon completion of MKTG 64, the student will be able to analyze appropriate media for various target markets.
- Upon completion of MKTG 64, the student will be able to compare and contrast the different types of advertising.
- Upon completion of MKTG 64, the student will be able to identify the procedures for developing an advertising campaign.

**Noncredit Tutoring****CSLO****NTUT200 - Supervised Tutoring**

- Students who receive tutoring should experience a welcoming, empathetic, and supportive environment.
- Students who receive tutoring should improve their course grade as a result of tutoring.
- Students who receive tutoring should use the Tutoring Center again.

**Political Science****CSLO****POLI7 - Intro to American Government**

- Upon completion of POLI 7, students will be able to analyze and critically assess various types of sources in the field of U.S. and California government and politics.
- Upon completion of POLI 7, students will be able to demonstrate understand and application of theories and concepts in U.S. and California politics.
- Upon completion of POLI 7, students will be able to explain the civil liberties and civil rights of individuals as articulated in the U.S. Constitution and federal court decisions.
- Upon completion of POLI 7, students will be able to explain the founding and development of the U.S. Constitution.
- Upon completion of POLI 7, students will be able to identify and evaluate institutions, political processes, and political sciences concepts as they apply to the United States and California.
- Upon completion of POLI 7, students will be able to research, synthesize, and argue a political thesis.

**POLI12 - Intro Cal State and Local Govt**

- Upon completion of POLI 12, students will be able to demonstrate understanding of California state and local government, and intergovernmental relationships.
- Upon completion of POLI 12, students will be able to identify, evaluate, and critically assess the various structures and processes of California government, such as its diverse populous, geography, ideologies, and how these interact and affect public policy formation.
- Upon completion of POLI 12, students will be able to show understanding of the complexity of California's governing structure(s), including how we legislate, vote, live, and decide on our collective future.

**POLI20 - Comparative Government**

- Upon completion of POLI 20, students will be able to assess and analyze contemporary issues in comparative government, institutions, and political problems drawn from selected national governments.
- Upon completion of POLI 20, students will be able to assess and analyze relevant comparative theories and apply them to contemporary political phenomena.
- Upon completion of POLI 20, students will be able to 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.
- Upon completion of POLI 20, students will be able to demonstrate understanding and application of relevant comparative theories and concepts and apply them to contemporary political phenomena.

**POLI25 - Intro to Political Theory**

- Upon completion of POLI 25, students will be able to demonstrate an understanding, ability to apply, and critically assess political theories relating to global political phenomena.
- Upon completion of POLI 25, students will be able to demonstrate understanding application of various historical and contemporary social and political theorists, theories, concepts, and source types.
- Upon completion of POLI 25, students will be able to research, synthesize, and argue a political thesis.
- Upon completion of POLI 25, students will 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.

**POLI30 - International Relations**

- Upon completion of POLI 30, students will be able to assess and analyze contemporary issues in international relations.

- Upon completion of POLI 30, students will be able to demonstrate understanding and application of relevant international relations theories and apply them to contemporary political phenomena.

## Psychology

### CSLO

#### PSYC1 - General Psychology

- Upon completion of PSYC 1, the student will be able to apply ethical standards to evaluate psychological science and practice in a diverse community at the local, national, and global levels.
- Upon completion of PSYC 1, the student will be able to apply psychological content for personal, professional and lifelong learning goals.
- Upon completion of PSYC 1, the student will be able to demonstrate effective written and oral communication for different purposes and audiences.
- Upon completion of PSYC 1, the student will be able to describe key concepts, principles, and themes in psychology and apply empirical findings.
- Upon completion of PSYC 1, the student will be able to use scientific thinking and information literacy to interpret, design, and conduct psychological research.

#### PSYC3 - Intro. to Social Psychology

- Upon completion of PSYC 3, the student will be able to demonstrate effective written and oral communication for different purposes and audiences.
- Upon completion of PSYC 3, the student will be able to apply psychological content for personal, professional and lifelong learning goals.
- Upon completion of PSYC 3, the student will be able to apply ethical standards to evaluate psychological science and practice in a diverse community at the local, national, and global levels.
- Upon completion of PSYC 3, the student will be able to use scientific thinking and information literacy to interpret, design, and conduct psychological research.
- Upon completion of PSYC 3, the student will be able to describe key concepts, principles, and themes in psychology and apply empirical findings.

#### PSYC4 - Brain, Mind, and Behavior

- Upon completion of PSYC 4, the student will 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.
- Upon completion of PSYC 4, the student will be able to 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.
- Upon completion of PSYC 4, the student will be able to explain scientific approaches and methodologies used for the study of brain-behavior relationships.
- Upon completion of PSYC 4, the student will be able to explain the general anatomy and physiology of the nervous system and its relationship to behavior.

#### PSYC6 - Abnormal Psychology

- Upon completion of PSYC 6, the student will be able to compare and contrast the various theoretical perspectives on etiology and implications for treatment of various psychological disorders.
- Upon completion of PSYC 6, the student will be able to define and use basic biological and psychological terminology to describe psychopathology and atypical behavior and mental processes.
- Upon completion of PSYC 6, the student will be able to explain specific research methods and the ethical principles for the study and treatment of psychopathology.
- Upon completion of PSYC 6, the student will be able to summarize the major disorder classifications and give concrete examples using appropriate diagnostic terminology (i.e., DSM).

#### PSYC10 - Psychology of Human Sexuality

- Upon completion of PSYC 10, the student will be able to compare the variations in sexuality found across social classes, ethnic groups, and other species.
- Upon completion of PSYC 10, the student will be able to integrate the interaction of the biological bases of human sexuality with the psychological and historical influences in our society.
- Upon completion of PSYC 10, the student will be able to trace the development of human sexuality from childhood to old age.
- Upon completion of PSYC 10, the student will be able to understand and apply the different psychological theories to the study of human sexual behavior.

#### PSYC12 - Life-Span Psychology

- Upon completion of PSYC 12, the student will be able to analyze the ways in which psychological principles and research apply to real world problems and issues across the lifespan.

- Upon completion of PSYC 12, the student will be able to demonstrate critical thinking skills and information competence as applied to topics in human development.
- Upon completion of PSYC 12, the student will be able to demonstrate familiarity with the major concepts, theoretical perspectives, research methods, and empirical findings in human development.
- Upon completion of PSYC 12, the student will be able to discuss biological, psychological, and sociocultural influences on lifespan development and the sources of developmental change.

### PSYC13 - Psychology of Women

- Upon completion of PSYC 13, the student will be able to analyze the ways in which the course material could be applied to real world problems and issues.
- Upon completion of PSYC 13, the student will be able to apply theories, concepts and findings in the field of psychology of women for self-understanding, self-improvement, and lifelong learning.
- Upon completion of PSYC 13, the student will be able to demonstrate critical thinking skills and information competence as applied to topics in the field of psychology of women.
- Upon completion of PSYC 13, the student will be able to demonstrate familiarity with the major concepts, theoretical perspectives, research methods, and empirical findings in the field of the psychology of women.
- Upon completion of PSYC 13, the student will be able to explain ways in which gender stereotypes, sexism, and various cultural influences affect gender-related human behavior.

### PSYC15 - Abnormal Child Psychology

- Upon completion of PSYC 15, the student will be able to analyze how cultural contexts relate to the perception, diagnosis, and treatment of problems.
- Upon completion of PSYC 15, the student will be able to compare and contrast the major psychological, biological, and sociocultural models of mental health and contemporary methods of treatment.
- Upon completion of PSYC 15, the student will be able to describe contemporary methods used in the evaluation, assessment, and diagnosis of children and adolescents.
- Upon completion of PSYC 15, the student will be able to explain the major mental health disorders, cognitive disorders, and learning disabilities of childhood and adolescence.

### PSYC17 - Psychology of Sleep & Dreams

- Upon completion of PSYC 17, the student should be able to analyze the methods used in the scientific study of sleep and dreams behavior.
- Upon completion of PSYC 17, the student should be able to contrast the causes and treatments for the major sleep disorders.
- Upon completion of PSYC 17, the student should be able to discuss the major theories and concepts of sleep and dreams.

### PSYC21 - Intro to Cross-Cultural Psych

- Upon completion of PSYC 21, the student will be able to appraise one's own ethnic/cultural origins and one's biases towards certain groups.
- Upon completion of PSYC 21, the student will be able to compare and contrast research biases in the study of individuals from diverse populations.
- Upon completion of PSYC 21, the student will be able to compare and contrast the effects of prejudice, stereotyping, and discriminatory attitudes and behaviors upon majority and minority groups.
- Upon completion of PSYC 21, the student will be able to describe skills that enhance cross-cultural communication, interactions, and relationships.
- Upon completion of PSYC 21, the student will be able to describe stressors related to acculturation into a new society.
- Upon completion of PSYC 21, the student will be able to explain how culture affects the conceptualization of mental health, symptomology and help seeking behaviors.

### PSYC25 - Research Methods

- Upon completion of PSYC 25, the student will be able to analyze the structure of scientific inquiry, including the history and philosophy of scientific investigation.
- Upon completion of PSYC 25, the student will be able to apply psychological content for personal, professional and lifelong learning goals.
- Upon completion of PSYC 25, the student will be able to 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.
- Upon completion of PSYC 25, the student will be able to discuss the advantages and limitations of different research methods used in psychological research, and the importance of reliability and validity in determining research quality.
- Upon completion of PSYC 25, the student will be able to discuss the importance of ethical principles in psychological research involving human and nonhuman animals and the historical events that led to these principles.

## Sociology

**CSLO****SOC1 - Principles of Sociology**

- Upon completion of SOC 1, the students should be able to outline major sociological theories.
- Upon completion of SOC 1, the students should be able to apply major sociological theories to world events.
- Upon completion of SOC 1, the students should be able to outline the symbiotic relationship between culture and social structure.
- Upon completion of SOC 1, the students should be able to explain how identities such as race, gender, sexuality, and class are socially constructed.
  
- Upon completion of SOC 1, the students should be able to produce an academic document that connects sociological research methods to sociological theory.

**SOC3 - Cultural and Racial Minorities**

- Upon completion of SOC 3, the students should be able to outline relevant sociological theories to accurately explain how race and ethnicity are socially constructed.
- Upon completion of SOC 3, the students should be able to analyze current or historical racial and ethnic group relations using sociological theory.
  
- Upon completion of SOC 3, the students should be able to conduct a research assignment using a multi-model sociological approach.
- Upon completion of SOC 3, the students should be able to produce an academic document that connects sociological research methods to sociological theory.

**SOC4 - Marriage and Family Relations**

- Upon completion of SOC 4, the students should be able to outline multiple family theories.
- Upon completion of SOC 4, the students should be able to apply family theory to changing family structures.
- Upon completion of SOC 4, the students should be able to produce an academic document that connects sociological research methods to family theory.

**SOC5 - Introduction to Global Studies**

- Upon completion of SOC 5, the students should be able to analyze a current event using a variety of international news sources.
- Upon completion of SOC 5, the students should be able to apply world systems theory to explain global phenomena.
- Upon completion of SOC 5, the students should be able to identify concrete examples of the various ways that culture is globalized.
- Upon completion of SOC 5, the students should be able to produce an academic document which connects sociological research methods to globalization theory.

**SOC6 - Social Problems**

- Upon completion of SOC 6, the students should be able to outline multiple sociological theories.
- Upon completion of SOC 6, the students should be able to apply sociological theory to current social problems.
- Upon completion of SOC 6, the students should be able to produce an academic document which connects sociological research methods to sociological theory.

**SOC7 - Sociology of Sexuality**

- Upon completion of SOC 7, the students should be able to outline major sociological theories of sexuality.
- Upon completion of SOC 7, the students should be able to apply major sociological theories of sexuality to current sexual practices.
- Upon completion of SOC 7, the students should be able to produce an academic document which connects sociological research methods to sexuality theory.

**SOC11 - Sociology of Gender**

- Upon completion of SOC 11, the students should be able to outline major sociological theories of gender.
- Upon completion of SOC 11, the students should be able to apply major sociological theories of gender to explain current gender practices.
  
- Upon completion of SOC 11, the students should be able to produce an academic document that connects sociological research methods to gender theory.

**SOC12 - POPULAR CULTURE**

- Upon completion of SOC 12, the students should be able to identify various theories of popular culture.
- Upon completion of SOC 12, the students should be able to outline the various processes of globalizing popular culture.

- Upon completion of SOC 12, the students should be able to outline the growing role of popular culture in the various stages of socialization.
- Upon completion of SOC 12, the students should be able to apply content analysis methodology to various popular culture mediums.
- Upon completion of SOC 12, the students should be able to identify the impact of popular culture consumption on our political processes.
- Upon completion of SOC 12, the students should be able to produce an academic document that connects sociological research to theories of popular culture.

**SOC13 - Research Methods**

- Upon completion of SOC 13, the students should be able to recognize the value of sociological research in understanding the social world.
- Upon completion of SOC 13, the students should be able to assess the effectiveness of the major types of sociological research methods.
- Upon completion of SOC 13, the students should be able to critique sociological research articles and research-based media claims.
- Upon completion of SOC 13, the students should be able to understand the ethical and political issues surrounding sociological research.
- Upon completion of SOC 13, the students should be able to design an appropriate analytical approach for testing a hypothesis.
- Upon completion of SOC 13, the students should be able to produce a research proposal incorporating appropriate methods to investigate a research question.

**Tutoring**

**CSLO**

**TUTOR17A - Tutoring Theory & Practice I**

- Upon completion of TUTOR 17A, the student should be able to implement tutoring policies and procedures using tutor scheduling software.
- Upon completion of TUTOR 17A, the student should be able to synthesize and formulate personalized tutoring best practices.

**TUTOR17B - Tutoring Theory & Practice II**

- Upon completion of TUTOR 17B, the student should be able to demonstrate active listening and validation strategies to assess student needs.
- Upon completion of TUTOR 17B, the student should be able to implement metacognitive tutoring strategies.
- Upon completion of TUTOR 17B, the student should be able to synthesize and formulate personalized tutoring best practices.

**TUTOR17C - Tutoring Theory & Practice III**

- Upon completion of TUTOR 17C, the student should be able to synthesize and formulate personalized tutoring best practices.
- Upon completion of TUTOR 17C, the student should be able to use multiple modalities to explain concepts to students from diverse backgrounds and with diverse learning styles.

**Womens Studies**

**CSLO**

**WMST1 - Intro to Womens Studies**

- Upon completion of WMST 1, students will be able to identify the multiple types of feminism that currently exist in the United States.
- Upon completion of WMST 1, students will be able to illustrate connections between global, national, and local issues in relationship to women's experiences and human rights.
- Upon completion of WMST 1, students will be able to recognize the ways in which social institutions and power structures impact women's lives.

**WMST2 - Global Perspective of Women**

- Upon completion of WMST 2, students will be able to articulate the intersections between gender, and other racial and cultural identities.
- Upon completion of WMST 2, students will be able to evaluate a variety of sources including print and electronic media, film, and video.
- Upon completion of WMST 2, students will be able to identify transnational feminist movements.

**Work Experience**

**CSLO**

**WRKX94 - Occupational Work Exp/Intern.**

- Upon completion of WRKX 94, the student should be able to achieve workplace learning objectives established by the student, supervisor, and instructor.
- Upon completion of WRKX 94, the student should be able to describe professional work skills in the workplace.

- Upon completion of WRKX 94, the student should be able to write a professional résumé including work experience completed during the course.

### WRKX95 - General Work Experience

- Upon completion of WRKX 95, the student should be able to achieve workplace learning objectives established by the student, supervisor, and instructor.
- Upon completion of WRKX 95, the student should be able to describe professional work skills in the workplace.
- Upon completion of WRKX 95, the student should be able to write a self-analysis essay about development of work skills and achievement of learning objectives.

## PATH

### Administration of Justice

#### CSLO

#### AJ50 - Intro to Admin of Justice

- Upon completion of AJ 50, the student will be able to articulate the scope of the crime problem in present-day America and discuss the methods, theories, and concepts associated with measuring crime.
- Upon completion of AJ 50, the student will be able to critically analyze and discuss issues of crime and justice.
- Upon completion of AJ 50, the student will be able to define causal theories, criminal types and societal factors used to explain the nature of crime.
- Upon completion of AJ 50, the student will be able to describe the evolution of the American criminal justice system, including the history, development, structure, and function of police, courts, and corrections.

#### AJ54 - Investigative Reporting

- Upon completion of AJ 54, the student will be able to complete a report using field and interview notes.
- Upon completion of AJ 54, the student will be able to explain the process of interviewing victims and witnesses to gather complete, accurate information.
- Upon completion of AJ 54, the student will be able to identify the correct crime codes and elements of the more common offenses/incidents investigated by the police.

#### AJ55 - Intro to Correctional Science

- Upon completion of AJ 55, the student will be able to describe the unique problems related to incarcerating female, juvenile, and special need offenders, and death row inmates.
- Upon completion of AJ 55, the student will be able to explain the differences between a prison and a jail and the role of each in the American criminal justice system.
- Upon completion of AJ 55, the student will explain how correctional agencies fulfill the mission of protecting society.

#### AJ60 - Criminal Law

- Upon completion of AJ 60, the student will be able to identify the elements of some common offenses as codified in the California Penal Code.
- Upon completion of AJ 60, the student will be able to identify the origins and foundational concepts of civil and criminal law and explain how laws are developed and modified.
- Upon completion of AJ 60, the student will describe the differences between specific, general, and transferred intent crimes.

#### AJ61 - Evidence

- Upon completion of AJ 61, the student will 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.
- Upon completion of AJ 61, the student will be able to 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.
- Upon completion of AJ 61, the student will 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.

#### AJ63 - Criminal Investigation

- Upon completion of AJ 63, the student will be able to conduct a preliminary criminal investigation.
- Upon completion of AJ 63, the student will be able to conduct a preliminary interview/interrogation.
- Upon completion of AJ 63, the student will be able to explain the role of forensic examination in the criminal investigative process.
- Upon completion of AJ 63, the student will be able to perform a basic crime scene search and identify applicable investigative resources.

### AJ64 - Patrol Procedures

- Upon completion of AJ 64, the student will be able to describe common operational structures, policies and field procedures found in American police agencies.
- Upon completion of AJ 64, the student will be able to describe the impacts of police demeanor and tactics on community perceptions of police legitimacy.
- Upon completion of AJ 64, the student will be able to discuss techniques for applying human relations strategies to the tasks and procedures of police patrol operations.
- Upon completion of AJ 64, the student will be able to identify the different methods of police patrol, their strengths, limitations and the purpose of each method of patrol.

### AJ66 - Juvenile Procedures

- Upon completion of AJ 66, the student will be able to explain the causes and effects of juvenile delinquency and crime.
- Upon completion of AJ 66, the student will be able to explain the historical evolution of the juvenile justice system and its processes.
- Upon completion of AJ 66, the student will be able to identify and discuss the differences between juvenile law and adult law.
- Upon completion of AJ 66, the student will be able to identify status offenses.

### AJ68 - Police Ethics and Leadership

- Upon completion of AJ 68, the student will be able to describe effective responses when witnessing unethical behavior.
- Upon completion of AJ 68, the student will be able to discuss the importance of ethical conduct by law enforcement personnel and its impact on public perception of police authority and legitimacy.
- Upon completion of AJ 68, the student will be able to have a working understanding of and explain the purpose and benefits of good leadership and the importance of sound ethical decision making in a law enforcement agency and by the individual officer.
- Upon completion of AJ 68, the student will be able to identify ethical and unethical behavior by police personnel, both on-duty and off-duty.

### AJ69 - Sex Crime Investigation

- Upon completion of AJ 69, the student will be able to discuss the historical, sociological, and psychological aspects of sexual assault and rape.
- Upon completion of AJ 69, the student will be able to explain the theoretical causes of sexual assault and discuss techniques of prevention.
- Upon completion of AJ 69, the student will be able to identify and define the legal elements of sexual assaults and rape.

### AJ70 - Community Relations

- Upon completion of AJ 70, the student will 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.
- Upon completion of AJ 70, the student will be able to describe the structure of various cultures in a community, including special populations and subcultures and how to effectively communicate with each group.
- Upon completion of AJ 70, the student will be able to identify the structure of the police organization and its impact on officer behavior, community relations and community members.

### AJ74 - Gangs and Drugs

- Upon completion of AJ 74, the student will be able to discuss the central issues and strategies in the law related to gang prevention and enforcement.
- Upon completion of AJ 74, the student will be able to explain the legal definition of a gang and the relationship of gangs to the import, sale and distribution of drugs in America.
- Upon completion of AJ 74, the student will be able to identify the major components of gangs, including recruitment, organization, symbols and rituals.

### AJ79 - Homicide Investigation

- Upon completion of AJ 79, the student will be able to compare and contrast homicide investigative procedures with other types of criminal investigations.
- Upon completion of AJ 79, the student will be able to recognize the evidence associated with determining whether a homicide, suicide, accidental death, or death from natural causes has occurred.
- Upon completion of AJ 79, the student will be able to understand the legal definitions of homicide and murder, and recognize the difference between legal and illegal homicide.

### AJ9954 - Weaponless Defense

- Upon completion of AJ 9954, the student will be able to evaluate new and existing weaponless techniques for actual use and understand and utilize current and future statutory and case law concerning the use of said techniques.

### AJ9965 - Internal Affairs Investigation

- Upon completion of AJ 9965, the student will be able to understand California state law and the Peace Officer Bill of Rights in regards to

the investigation of sworn officers and non-sworn employees of state law enforcement agencies.

**AJ9969 - Firearms Instructor**

- Upon completion of AJ 9969, the student will be able to demonstrate the requirements to become a California POST certified firearms instructor.

**AJ9979 - Basic Police Cyclist**

- Upon completion of AJ 9979, the student will be able to explain and demonstrate the safe handling of a bicycle modified for police patrol.

**AJ9980 - Rifle Marksmanship & Sniper**

- Upon completion of AJ 9980, the student will be able to show proficiency in the application of rules of engagement in critical incidents and demonstrate tactical skills in sniping and field craft.

**AJ9987 - Basic S.W.A.T.**

- Upon completion of AJ 9987, the student will be able to perform as a SWAT team member with a law enforcement agency.

**AJ9997 - Law Enforcement Academy**

- Upon completion of AJ 9997, the student will be able to academically prepared for a California Peace Officer Standards and Training Commission basic training academy.
- Upon completion of AJ 9997, the student will be able to assume the duties of a basically trained California peace officer and be eligible for duty as a probationary peace officer.

**AJ9998 - POST Basic Supervisory**

- Upon completion of AJ 9998, the student will be able to demonstrate the application of leadership theories in given law enforcement situations.

**Apprenticeship Ironworkers**

**CSLO**

No CSLOs

**Automotive Technology**

**CSLO**

**AUTOA1 - Engine Repair**

- Upon completion of AUTO A1, the student should be able to apply engine repair safety precautions.
- Upon completion of AUTO A1, the student should be able to apply safety precautions in shop lab exercises.
- Upon completion of AUTO A1, the student should be able to obtain and interpret powertrain data related to the engine.

**AUTOA2 - Auto Transmission/Transaxle**

- Upon completion of AUTO A2, the student should be able to apply transmission/Transaxle repair safety precautions.
- Upon completion of AUTO A2, the student should be able to obtain and interpret powertrain data related to the transmission.

**AUTOA3 - Manual Drive Train and Axles**

- Upon completion of AUTO A3, the student should be able to apply Manual Drive Train and axle repair safety precautions.
- Upon completion of AUTO A3, the student should be able to obtain and interpret powertrain data related to manual gearboxes and axles.

**AUTOA4 - Suspension and Steering**

- Upon completion of AUTO A4, the student should be able to apply steering and suspension repair safety precautions.
- Upon completion of AUTO A4, the student should be able to obtain and interpret powertrain data related to the steering and suspension system.

**AUTOA5 - Brakes**

- Upon completion of AUTO A5, the student should be able to apply brakes repair safety precautions.
- Upon completion of AUTO A5, the student should be able to obtain and interpret powertrain data related to the brake system.

**AUTOA6 - Electrical/ Electronic Systems**

- Upon completion of AUTO A6, the student should be able to apply electrical precautions.
- Upon completion of AUTO A6, the student should be able to obtain and interpret data related to the electrical system

**AUTOA7 - Auto Heating-Air Conditioning**

- Upon completion of AUTO A7, the student should be able to apply HVAC safety precautions.
- Upon completion of AUTO A7, the student should be able to read and interpret HVAC gauges.

**AUTOA8 - Engine Performance**

- Upon completion of AUTO A8, the student should be able to apply emission safety precautions.
- Upon completion of AUTO A8, the student should be able to read and interpret scanner data.

**AUTOA9 - Light Vehicle Diesel Engines**

- Upon completion of AUTO A9, the student should be able to diagnose and repair diesel engine mechanical systems.
- Upon completion of AUTO A9, the student should be able to diagnose and repair diesel turbo systems.
- Upon completion of AUTO A9, the student should be able to diagnose and repair electronic diesel system.

**AUTOINTR - Auto Service & Introduction**

- Upon completion of AUTO INTR, the student should be able to perform and oil change with 100% accuracy.
- Upon completion of AUTO INTR, the student should be able to, recognize and apply shop safety precautions.

**AUTOL1 - Advanced Engine Performance**

- Upon completion of AUTO L1, the student should be able to apply emissions safety precautions.
- Upon completion of AUTO L1, the student should be able to diagnose engine driveability problems using a scanner and multimeter.

**AUTOL1L2 - Smog Level One and Level Two**

- Upon completion of AUTO L1L2, the student should be able to perform an OIS test.
- Upon completion of AUTO L1L2, the student should be able to, obtain and interpret powertrain data.

**AUTOL3 - Light Duty Hybrid/Electric Ve.**

- Upon completion of AUTO L3, the student should be able to perform hybrid safety precautions with 100% accuracy.
- Upon completion of AUTO L3, the student should be able to perform the hybrid battery disconnect procedure.

**AUTOLABA - Automotive Lab**

- Upon completion of AUTO LABA, the student should be able to apply safety in all lab conditions.
- Upon completion of AUTO LABA, the student should be able to work autonomously in a shop environment.

**AUTOLABB - Automotive Lab Advanced**

- Upon completion of AUTO LABB, the student should be able to apply all safety precautions.
- Upon completion of AUTO LABB, the student should be able to complete hands on lab sessions with no instructor supervision necessary.

**AUTOSDR - Specified Diagnostic & Repair**

- Upon completion of AUTO SDR, the student should be able to apply safety precautions in shop lab exercises.
- Upon completion of AUTO SDR, the student should be able to, obtain and interpret scan tool data.

**Emergency Medical Services****CSLO****EMS10 - Paramedic Theory 1**

- Upon completion of EMS 10, the student will be able to describe the function of the Emergency Medical System and it's historical development.
- Upon completion of EMS 10, the student will be able to assess and discuss respiratory emergencies, and utilize airway tools to treat patients.
- Upon completion of EMS 10, the student will be able to discuss the physiology and pathophysiology of emergent medical illnesses and traumatic injuries.

**EMS11 - Paramedic Theory 2**

- Upon completion of EMS 11, the student will be able to formulate a differential diagnosis of the emergency syndromes when evaluating a pediatric patient with shortness of breath.

- Upon completion of EMS 11, the student will be able to perform the correct emergency medical treatment for the condition observed when presented with a clinical condition identified by a 12-lead electrocardiogram.
- Upon completion of EMS 11, the student will be able to read and interpret a 12-lead electrocardiogram in order to describe a syndrome under the umbrella of Acute Coronary Syndromes.

### EMS12 - Paramedic Laboratory 1

- Upon completion of EMS 12, the student will be able to demonstrate the psychomotor skills related to medication administration, patient assessment, and airway management.
- Upon completion of EMS 12, the student will be able to demonstrate the successful insertion of an endotracheal tube into a simulated trachea.
- Upon completion of EMS 12, the student will be able to demonstrate the successful insertion of an intravenous catheter into a simulated vein.
- Upon completion of EMS 12, the student will be able to perform medication calculations.
- Upon completion of EMS 12, the student will be able to use a variety of skills from their completed portfolio to assess a patient and carry out appropriate treatment.

### EMS13 - Paramedic Laboratory 2

- Upon completion of EMS 13, the student will 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.
- Upon completion of EMS 13, the student will be able to manage and treat an adult patient in cardiac arrest using the standards of the American Heart Association Advanced Cardiac Life Support protocols.
- Upon completion of EMS 13, the student will be able to properly identify a simulated dynamic and static electrocardiographic rhythm on a 4-lead ECG monitor and treat the syndrome signified by the ECG tracing.

### EMS20 - Emergency Medical Technician

- Upon completion of EMS 20, the student will be able to demonstrate proficiency in the psychomotor skills required in their scope of practice.
- Upon completion of EMS 20, the student will be able to describe the function of the Emergency Medical System and its historical development.
- Upon completion of EMS 20, the student will be able to discuss the physiology and pathophysiology of emergent medical illnesses and traumatic injuries within their scope of practice.

### EMS30 - Emergency Medical Responder

- Upon completion of EMS 30, the student will be able to implement treatment at the scope of practice of Emergency Medical Responder.
- Upon completion of EMS 30, the student will be able to recognize emergency medical illnesses and traumatic injuries.

### EMS62 - Basic Medical Terminology

- Upon completion of EMS 62, the student will be able to break down complex medical terms into simple root words and infer larger meanings through knowledge of smaller component word parts.

### EMS70 - CPR for Health Care Providers

- Upon completion of EMS 70, the student shall be able to perform the CPR skills required for a Health Care Provider according to the standards of the American Heart Association

### EMS91 - Emergency Med. Tech- Refresher

- Upon completion of EMS 91, the student will be able to articulate the recent advances in emergency medical care within the last two years.
- Upon completion of EMS 91, the student will be able to demonstrate continued proficiency in the psychomotor skills required in their scope of practice.

## Fire Service Technology

### CSLO

#### FST1 - Fire Protection Organization

- Upon completion of FST 1, the student will be able to explain the educational requirements and duties of a firefighter.
- Upon completion of FST 1, the student will be able to explain the purpose of the various Fire Protection agencies.
- Upon completion of FST 1, the student will be able to identify and explain the use of common fire department apparatus and equipment.

#### FST2 - Principles of Fire Safety

- Upon completion of FST 2, the student will 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.

- Upon completion of FST 2, the student will be able to identify the 16 Firefighter Life and Safety Initiatives and their benefits for preventing Firefighter deaths and injuries.
- Upon completion of FST 2, the student will be able to identify the means of preventing firefighter’s deaths and injuries through a wellness and health program.

**FST3 - Fire Behavior and Combustion**

- Upon completion of FST 3, the student will be able to analyze Physical Conditions which determine the states of matter and how they influence fire behavior.
- Upon completion of FST 3, the student will be able to compare and contrast methods and techniques of fire extinguishment.
- Upon completion of FST 3, the student will be able to define basic terms and concepts related to fire behavior and chemistry.

**FST4 - Fire Prevention**

- Upon completion of FST 4, the student will be able to define the national fire problem including causes, damages, and public and firefighter fatalities.
- Upon completion of FST 4, the student will be able to explain the responsibilities and functions of the fire prevention bureau in relationship to the fire department organizational structure.
- Upon completion of FST 4, the student will be able to identify local, state and federal fire prevention organizations and regulatory agencies.
- Upon completion of FST 4, the student will be able to research the minimum professional qualifications at the state and national level for Fire Inspector and Fire Investigator.

**FST5 - Fire Protection Systems**

- Upon completion of FST 5, the student will be able to describe fire protection systems in various structures and the history of sprinkler ordinances and legislation.
- Upon completion of FST 5, the student will be able to describe the components of a fire alarm system and different types of detectors and how they detect fire.
- Upon completion of FST 5, the student will be able to explain the operation and application of portable fire extinguishing systems.
- Upon completion of FST 5, the student will be able to identify the components of sprinkler, standpipe and foam systems.

**FST6 - Construction Fire Protection**

- Upon completion of FST 6, the student will be able to analyze the hazards and tactical considerations associated with the various types of building construction.
- Upon completion of FST 6, the student will be able to explain the different loads and stresses that are placed on a building and their interrelationships.
- Upon completion of FST 6, the student will be able to identify major types of building construction.
- Upon completion of FST 6, the student will be able to identify the indicators of potential structural failure as they relate to firefighter safety.

**FST8 - Fire Service Operations**

- Upon completion of FST 8, the student should be able to demonstrate an understanding of Public Safety dispatch/alarm systems and identify ways emergency calls come into the center, and reach the fire fighter.
- Upon completion of FST 8, the student should be able to describe the components of a fire ground size up and explain where they would be used.
- Upon completion of FST 8, the student should be able to identify the components of a management system, and give examples of where they are used in the fire service.

**Health**

**CSLO**

**HLTH1 - Intro to Personal Health**

- Upon completion of Health 1, students will be able to identify their modifiable and non-modifiable risk factors for personal health.
- Upon completion of Health 1, students will be able to locate health information related to their individual behavior change process and evaluate the credibility of those sources.
- Upon completion of Health 1, students will be able to integrate and apply scientific research into their individual behavior change process.
- Upon completion of Health 1, students will feel empowered to implement positive health behaviors.

**HLTH3 - Women's Health**

- Upon completion of Health 3, students will be able to evaluate health-related messages about women in popular media sources.

- Upon completion of Health 3, students will be able to identify and discuss sexual rights issues as related to sexual health and responsible sexual behavior.
- Upon completion of Health 3, students will be able to identify the modifiable and non-modifiable risk factors for health.
- Upon completion of Health 3, students will be able to integrate scientific research into her or his behavior change process.
- Upon completion of Health 3, students will be able to locate credible health information.

### HLTH7 - Introduction to Public Health

- Upon completion of Health 7, students will be able to discuss the multiple determinants of health.
- Upon completion of Health 7, students will be able to recognize the impact of policies, laws, and legislation on both individual and population health.
- Upon completion of Health 7, students will be able to recognize the importance of key events, studies, and milestones in the history and development of the field of public health.
- Upon completion of Health 7, students will be able to utilize credible sources of health data and information, and communicate that information to a wide range of audiences through an array of media.

## Kinesiology

### CSLO

#### KIN5 - Sports Management

- Upon completion of KIN 5, students should be able to evaluate the value of an athletic scholarship when compared to the revenue generated by collegiate athletic programs.
- Upon completion of KIN 5, students should be able to interpret performance data from a team/athlete and provide guidance to the coach based on your analysis.

#### KIN6 - Personal Trainer

- Upon completion of KIN 6, students should be able to design a safe and effective workout program.
- Upon completion of KIN 6, students should be able to describe the role of a personal trainer in the scope of the allied health care profession.

#### KIN14 - Responding to Emergencies:

- Upon completion of KIN 14, students should be able to demonstrate bandaging and splinting techniques.
- Upon completion of KIN 14, students should be able to demonstrate cardiopulmonary resuscitation and the use of an AED.

#### KIN15 - First Aid and Safety

- Upon completion of KIN 15, students should be able to demonstrate the ability to perform CPR with AED and rescue breathing.
- Upon completion of KIN 15, students should be able to perform first aid.

#### KIN16 - The Successful Student-Athlete

- Upon completion of KIN 16, students should be able to demonstrate knowledge of CCCAA regulations for eligibility and show an understanding of NCAA regulations for transfer and immediate eligibility.

#### KIN17 - Intro Athletic Trng/Sports Med

- Upon completion of KIN 17, students should be able to list the components in an ankle inversion prevention tape application.
- Upon completion of KIN 17, students should be able to list the roles and responsibilities of an Athletic Trainer or A.T.C.

#### KIN18A - Athletic Training Practicum 1

- Upon completion of KIN 18A, students should be able to demonstrate techniques in passive stretching.
- Upon completion of KIN 18A, students should be able to exhibit proficiency in the correct use of therapeutic modalities.
- Upon completion of KIN 18A, students should be able to illustrate appropriate taping techniques for joint stability and prevention of injuries.

#### KIN18B - Athletic Training Practicum 2

- Upon completion of KIN 18B, students should be able to apply first aid and acute care techniques for athletic injuries.
- Upon completion of KIN 18B, students should be able to compare taping techniques for joint stability and prevention of injuries.
- Upon completion of KIN 18B, students should be able to evaluate joint/muscle injuries and analyze possible diagnosis.

#### KIN19 - Care & Prevention of Injuries

- Upon completion of KIN 19, students should be able to apply therapeutic modalities.
- Upon completion of KIN 19, students should be able to evaluate and diagnose injury conditions.
- Upon completion of KIN 19, students should be able to evaluate techniques for treating common athletic injuries.

#### **KIN24 - Sport Psychology**

- Upon completion of KIN 24, students should be able to describe the relationship between coach expectations and athlete performance.
- Upon completion of KIN 24, students should be able to identify guidelines for coaches for building team cohesion.

#### **KIN30 - Introduction to Kinesiology**

- Upon completion of KIN 30, students should be able to identify a number of career options following a degree in kinesiology.
- Upon completion of KIN 30, students should be able to identify programs of study within the field of Kinesiology.

#### **KIN38A - Preseason Inter. Mens Soccer**

- Upon completion of KIN 38A, students should be able to demonstrate effective defensive tactics.
- Upon completion of KIN 38A, students should be able to demonstrate effective offensive tactics.

#### **KIN38B - Intercollegiate Men's Soccer**

- Upon completion of KIN 38B, students should be able to demonstrate an increase in fitness.
- Upon completion of KIN 38B, students should be able to understand and apply the laws of the game during an official soccer match.

#### **KIN38C - Post Season Inter.Men's Soccer**

- Upon completion of KIN 38C, students should be able to demonstrate effective defensive techniques.
- Upon completion of KIN 38C, students should be able to demonstrate effective offensive techniques.

#### **KIN40A - Pre-Season Women's Volleyball**

- Upon completion of KIN40A, students should be able to describe the rules and regulations used in intercollegiate volleyball competitions.
- Upon completion of KIN40A, students should be able to improve their fitness level.

#### **KIN40B - Intercoll. Women's Volleyball**

- Upon completion of KIN 40B, students should be able to demonstrate appropriate offensive and defensive strategies to compete at the intercollegiate level.
- Upon completion of KIN40B, students should be able to demonstrate and apply etiquette and sportsmanship during intercollegiate competition.
- Upon completion of KIN40B, students should be able to demonstrate effective technical skills used in intercollegiate volleyball competitions.

#### **KIN40C - Off Season Women's Volleyball**

- Upon completion of KIN 40C, students should be able to effectively hit the ball to certain parts of the volleyball court (deep line, tip short, angle).
- Upon completion of KIN 40C, students should be able to identify individual areas (technical or tactical) for improvement.

#### **KIN41A - Pre-Condition.Int.BSKTBL-Women**

- Upon completion of KIN 41A, students should be able to demonstrate an understanding of the language of basketball.
- Upon completion of KIN 41A, students should be able to perform advance defensive phases of Basketball (zone and player to player defense in the half court and full court).
- Upon completion of KIN 41A, students should be able to perform advance offensive phases of Basketball (dribble, pass and shoot through team half court sets, transitional sets, press breakers and out of bounds plays).
- Upon completion of KIN 41A, students should be in the proper shape to compete at the collegiate level.
- Upon completion of KIN 41A, students should be prepared to tryout and possibly make the Las Positas College basketball team.

#### **KIN41B - Intercollegiate Bsktbl-Women**

- Upon completion of KIN 41B, students should be able to demonstrate acquired defensive skills through competition: 1 out of 2 successful attempts (zone and player to player) in the half court and full court.
- Upon completion of KIN 41B, students should be able to demonstrate acquired offensive skills through competition: 4 out of 5 successful attempts (dribble and pass) and 2 out of 5 attempts (shooting) through half court sets, transitional sets, press breakers and out of bounds plays.

#### **KIN41C - Spring Interc.Basketball-Women**

- Upon completion of KIN 41C, students should be able to identify correct rules, scoring and strategies for successful completion of an Intercollegiate Basketball game.
- Upon completion of KIN 41C, students should be able to demonstrate an understanding of advanced skills in basketball; dribbling through traffic on the court, passing under defensive pressure, shooting three point shots, rebounding, offensive screening and offensive moves to the basket.

#### **KIN41D - Off Season Women's Basketball**

- Upon completion of KIN 41D, students should be able to articulate and demonstrate advanced strategies used in basketball. The student will show an understanding of the rules, strategies, and sportsmanship involved in competitive basketball.
- Upon completion of KIN 41D, students should be able to demonstrate acquired offensive skills through competition: 4 out of 5 successful attempts (dribble & pass) and 2 out of 5 successful attempts (shooting) through half court sets, transitional sets, press breakers and out of bounds plays. Demonstrate acquired defensive skills through competition: 1 out of 2 successful attempts (zone & player to player) in the half court and full court.
- Upon completion of KIN 41D, students should be able to perform advance offensive phases of Basketball (dribble, pass and shoot through team half court sets, transitional sets, press breakers and out of bounds plays), and perform advance defensive phases of Basketball (zone and player to player defense in the half court and full court).

#### **KIN48A - Presea Intercol Womens Soccer**

- Upon completion of KIN 48A, students should be able to demonstrate effective defensive tactics.
- Upon completion of KIN 48A, students should be able to demonstrate effective offensive tactics.

#### **KIN48B - Intercollegiate: Womens Soccer**

- Upon completion of KIN 48B, students should be able to demonstrate an increase in fitness level.
- Upon completion of KIN 48B, students should be able to understand and apply the laws of the game during an official soccer match.

#### **KIN48C - Off Season Women's Soccer**

- Upon completion of KIN 48C, students should be able to demonstrate effective defensive techniques.
- Upon completion of KIN 48C, students should be able to demonstrate effective offensive techniques.

#### **KIN50A - Pre-Season Training Swim&Dive**

- Upon completion of KIN 50A, students should be able to demonstrate the ability to maintain good academic standing with a 2.0 GPA and 12 units.
- Upon completion of KIN 50A, students should be able to employ a pre-season weight program using principles of overload and progression.

#### **KIN50B - Inter. Swimming Diving**

- Upon completion of KIN 50B, students should be able to demonstrate and apply etiquette and sportsmanship through intercollegiate competition.
- Upon completion of KIN 50B, students should be able to demonstrate the ability to compete and excel at the highest level of community college competition.
- Upon completion of KIN 50B, students should be able to demonstrate the ability to maintain good academic standing with a 2.0 GPA and 12 units.

#### **KIN60 - Intercolleg. Water Polo- Men's**

- Upon completion of KIN 60, students should be able to demonstrate and apply etiquette and sportsmanship through intercollegiate competition.
- Upon completion of KIN 60, students should be able to demonstrate appropriate offensive and defensive strategies to compete at the intercollegiate level.
- Upon completion of KIN 60, students should be able to demonstrate effective throwing, catching, and shooting mechanics.

#### **KIN61 - Water Polo Off Season Training**

- Upon completion of KIN 61, students should be able to demonstrate a proficient eggbeater kick.
- Upon completion of KIN 61, students should be able to demonstrate an 'M' drop zone defense.

#### **KIN65 - Intercol. Water Polo- Women's**

- Upon completion of KIN 65, students should be able to demonstrate and apply etiquette and sportsmanship through intercollegiate competition.
- Upon completion of KIN 65, students should be able to demonstrate appropriate offensive and defensive strategies to compete at the intercollegiate level.
- Upon completion of KIN 65, students should be able to demonstrate effective throwing, catching, and shooting mechanics.

#### **KINAF1 - Aerobic Fitness Gym**

- Upon completion of KIN AF1, students should be able to compare and contrast various methods of evaluating exercise intensity.
- Upon completion of KIN AF1, students should be able to demonstrate an increase in their cardiorespiratory fitness.
- Upon completion of KIN AF1, students should be able to safely use a variety of cardiovascular gym equipment.

#### **KINBC1 - Boot Camp 1-Flex/Core Dev**

- Upon completion of KIN BC1, students should be able to demonstrate an increase in core strength.
- Upon completion of KIN BC1, students should be able to demonstrate an increase in flexibility.
- Upon completion of KIN BC1, students should be able to demonstrate correct alignment while performing core and flexibility exercises.

#### **KINBC2 - Boot Camp for Aerobic Cond**

- Upon completion of KIN BC2, students should be able to demonstrate an increase in cardiorespiratory fitness.
- Upon completion of KIN BC2, students should be able to demonstrate correct alignment while performing aerobic exercises.

#### **KINBC3 - Boot Camp for Power & Strength**

- Upon completion of KIN BC3, students should be able to demonstrate an increase in muscular strength.
- Upon completion of KIN BC3, students should be able to demonstrate an increase in power output.
- Upon completion of KIN BC3, students should be able to demonstrate correct alignment while performing power and strength exercises.

#### **KINBD1 - Badminton 1**

- Upon completion of KIN BD1, students should be able to assess strategies to apply maximum movement pressure on your opponent(s).
- Upon completion of KIN BD1, students should be able to identify when and how to apply defensive tactics to limit your opponent's attacking angles.

#### **KINBD2 - Badminton 2**

- Upon completion of KIN BD2, students should be able to evaluate when to defend (lift) and wait for a better counter-attacking opportunity.
- Upon completion of KIN BD2, students should be able to recognize when to apply an attacking doubles formation, and when to apply a defensive formation.

#### **KINBD3 - Badminton 3**

- Upon completion of KIN BD3, students should be able to illustrate the block defense and when to employ this strategy in doubles play.
- Upon completion of KIN BD3, students should be able to select when to apply movement pressure and when to hit to the middle.

#### **KINBK1 - Basketball 1**

- Upon completion of KIN BK1, students should be able to demonstrate fundamental basketball skills.
- Upon completion of KIN BK1, students should be able to integrate the rules of basketball during full and half-court scrimmages.
- Upon completion of KIN BK1, students should be able to recognize basketball terminology.

#### **KINBK2 - Basketball 2**

- Upon completion of KIN BK2, students should be able to demonstrate effective offensive and defensive basketball strategies.
- Upon completion of KIN BK2, students should be able to demonstrate intermediate technical basketball skills.

#### **KINBL1 - Bowling 1**

- Upon completion of KIN BL1, students should be able to differentiate the four basic shots in bowling.
- Upon completion of KIN BL1, students should be able to display appropriate bowling etiquette.

#### **KINBX1 - Box Aerobics**

- Upon completion of KIN BX1, students should be able to demonstrate an improvement in cardiovascular fitness.
- Upon completion of KIN BX1, students should be able to demonstrate proper form when performing punches and kicks.

#### **KINCRT - X-Training**

- Upon completion of KIN CRT, students should be able to demonstrate an increase in fitness level.
- Upon completion of KIN CRT, students should be able to describe the components of physical fitness.

#### **KINCYCL1 - Cycling 1**

- Upon completion of KIN CYCL1, students should be able to demonstrate safe and effective riding posture while seated on the stationary bike.

- Upon completion of KIN CYCL1, students should be able to compare and contrast various methods of evaluating exercise intensity.
- Upon completion of KIN CYCL1, students should be able to demonstrate an increase in their cardiorespiratory fitness.

### **KINCYCL2 - Cycling 2**

- Upon completion of KIN CYCL2, students should be able to demonstrate safe and effective riding posture while standing on the stationary cycle.
- Upon completion of KIN CYCL2, students should be able to demonstrate an increase in their cardiorespiratory fitness.
- Upon completion of KIN CYCL2, students should be able to measure and utilize their target heart rate ranges during a cycling workout.

### **KINCYCL3 - Cycling 3**

- Upon completion of KIN CYCL3, students should be able to demonstrate safe and effective riding posture during hills and sprints.
- Upon completion of KIN CYCL3, students should be able to increase their cardiorespiratory fitness.
- Upon completion of KIN CYCL3, students should be able to utilize the rate of perceived exertion (RPE) scale as a way to estimate their target heart rate.

### **KINDA1 - Dance Aerobics/Body Sculpting**

- Upon completion of KIN DA1, students should be able to calculate target heart rate.
- Upon completion of KIN DA1, students should be able to demonstrate improved fitness level.

### **KINDV1 - Springboard Diving**

- Upon completion of KIN DV1, students should be able to demonstrate appropriate approach, hurdle, and takeoff for a forward dive.
- Upon completion of KIN DV1, students should be able to organize a six dive list.

### **KINETD1 - Eskrima - Tenio DeCuerdas 1**

- Upon completion of KIN ETD1, the student should be able to perform beginning-level daga defenses.
- Upon completion of KIN ETD1, the student should be able to perform beginning-level footwork.
- Upon completion of KIN ETD1, the student should be able to perform beginning-level striking.

### **KINETD2 - Eskrima - Tenio DeCuerdas 2**

- Upon completion of KIN ETD2, the student should be able to perform elementary-level daga defenses.
- Upon completion of KIN ETD2, the student should be able to perform elementary-level footwork.
- Upon completion of KIN ETD2, the student should be able to perform elementary-level striking.

### **KINETD3 - Eskrima - Tenio DeCuerdas 3**

- Upon completion of KIN ETD3 a student should be able to perform intermediate-level striking.
- Upon completion of KIN ETD3, the student should be able to perform intermediate-level daga defenses.
- Upon completion of KIN ETD3, the student should be able to perform intermediate-level footwork.

### **KINETD4 - Eskrima - Tenio DeCuerdas 4**

- Upon completion of KIN ETD4, the student should be able to perform advanced-level daga defenses.
- Upon completion of KIN ETD4, the student should be able to perform advanced-level footwork.
- Upon completion of KIN ETD4, the student should be able to perform advanced-level striking.

### **KINFC - Fitness Center**

- Upon completion of KIN FC, students should be able to demonstrate proper operation procedures for various cardio and fitness equipment.
- Upon completion of KIN FC, students should be able to describe the components of physical fitness.
- Upon completion of KIN FC, students should be able to design a safe and effective exercise program.

### **KINFD - Fitness Development**

- Upon completion of KIN FD, students should be able to identify resting, training, and maximum heart rates.
- Upon completion of KIN FD, students should be able to plan a fitness development program to maintain and/or improve personal fitness.

### **KINFJW1 - Fitness Walking 1**

- Upon completion of KIN FJW1, students should be able to compare and contrast various methods of evaluating exercise intensity.

- Upon completion of KIN FJW1, students should be able to demonstrate an increase in their cardiorespiratory fitness.
- Upon completion of KIN FJW1, students should be able to demonstrate safe walking posture, gait, and foot placement while walking at an easy pace.

### **KINFJW2 - Fitness Walking 2**

- Upon completion of KIN FJW2, students should be able to calculate the "Target Heart Rate Formula."
- Upon completion of KIN FJW2, students should be able to demonstrate an increase in their cardiorespiratory fitness.
- Upon completion of KIN FJW2, students should be able to demonstrate safe walking posture, gait, and foot placement while walking at a moderate pace.

### **KINFJW3 - FITNESS WALKING 3**

- Upon completion of KIN FJW3, students should be able to demonstrate an increase in their cardiorespiratory fitness.
- Upon completion of KIN FJW3, students should be able to demonstrate safe walking posture, gait, arm placement, and foot placement while walking at a brisk pace.
- Upon completion of KIN FJW3, students should be able to measure their maximum heart rate and calculate their target heart rate.

### **KINFJW4 - Jog/Walk**

- Upon completion of KIN FJW4, students should be able to design an effective warm up and cool down.
- Upon completion of KIN FJW4, students should be able to estimate their maximum heart rate and identify their target heart rate.
- Upon completion of KIN FJW4, students should be able to walk and jog safely and effectively as a way to exercise and develop their overall aerobic fitness level.

### **KINFL1 - Flag Football 1**

- Upon completion of KIN FL1, students should be able to demonstrate basic skills in passing and receiving.
- Upon completion of KIN FL1, students should be able to demonstrate knowledge of the general rules involved with the game of flag football.

### **KINFL2 - Flag Football 2**

- Upon completion of KIN FL2, students should be able to demonstrate knowledge of the rules involved with the game of 4-on-4 and 5-on-5 flag football.
- Upon completion of KIN FL2, students should be able to demonstrate offensive and defensive strategies for 4-on-4 and 5-on-5 flag football.

### **KINFL3 - Flag Football 3**

- Upon completion of KIN FL3, students should be able to demonstrate knowledge of the rules involved with the game of 7-on-7 and 8-on-8 flag football.
- Upon completion of KIN FL3, students should be able to demonstrate use of offensive and defensive strategies used in 7-on-7 and 8-on-8 flag football.

### **KINFNE1 - Fencing - Epee 1**

- Upon completion of KIN FNE1, students should be able to demonstrate beginning-level fencing footwork.
- Upon completion of KIN FNE1, students should be able to explain beginning fencing terminology.

### **KINFNE2 - Fencing - Epee 2**

- Upon completion of KIN FNE2, students should be able to demonstrate fencing footwork combinations.
- Upon completion of KIN FNE2, students should be able to demonstrate offensive tactical blade work.

### **KINFNF1 - Fencing- Foil 1**

- Upon completion of KIN FNF1, students should be able to demonstrate beginning-level fencing footwork.
- Upon completion of KIN FNF1, students should be able to explain beginning fencing terminology.

### **KINFNF2 - Fencing - Foil 2**

- Upon completion of KIN FNF2, students should be able to demonstrate fencing footwork combinations.
- Upon completion of KIN FNF2, students should be able to explain competitive fencing terminology.

### **KINGBW1 - Guts and Butts Workout**

- Upon completion of KIN GBW1, students should be able to demonstrate an increase in their core and glute strength.
- Upon completion of KIN GBW1, students should be able to demonstrate proper form during beginning level exercises that target the gluteal and abdominal musculature.

- Upon completion of KIN GBW1, students should be able to identify the major muscle groups of the gluteal and abdominal musculature.

#### **KINGF1 - Golf 1**

- Upon completion of KIN GF1, students should be able to analyze the influence of alignment and grip on ball flight.
- Upon completion of KIN GF1, students should be able to distinguish between the overlapping, interlocking and ten-finger grips.

#### **KINGF2 - Golf 2**

- Upon completion of KIN GF2, students should be able to identify the effects of a strong, weak and neutral grip.
- Upon completion of KIN GF2, students should be able to illustrate how a golfer creates lag in the golf swing.

#### **KINGF3 - Golf 3**

- Upon completion of KIN GF3, students should be able to assess the significance of the hip pivot movement and its role in creating distance in golf ball flight.
- Upon completion of KIN GF3, students should be able to illustrate the appropriate sequence to start the downswing.

#### **KINJDR1 - Jujutsu - Danzan Ryu 1**

- Upon completion of KIN JDR1, the student should be able to perform beginning-level trip throws.
- Upon completion of KIN JDR1, the student should be able to perform beginning-level ukemi.
- Upon completion of KIN JDR1, the student should be able to use beginning-level escapes.

#### **KINJDR2 - Jujutsu - Danzan Ryu 2**

- Upon completion of KIN JDR2, the student should be able to perform beginning-level holds/controls.
- Upon completion of KIN JDR2, the student should be able to perform beginning-level sweep throws.
- Upon completion of KIN JDR2, the student should be able to perform elementary-level ukemi.

#### **KINJDR3 - Jujutsu - Danzan Ryu 3**

- Upon completion of KIN JDR3, the student should be able to perform beginning pins/hold-downs.
- Upon completion of KIN JDR3, the student should be able to perform beginning-level reap throws.
- Upon completion of KIN JDR3, the student should be able to perform intermediate-level ukemi.

#### **KINJDR4 - Jujutsu - Danzan Ryu 4**

- Upon completion of KIN JDR4, the student should be able to perform beginning-level drop throws.
- Upon completion of KIN JDR4, the student should be able to perform intermediate/advanced-level ukemi.
- Upon completion of KIN JDR4, the student should be able to use intermediate/advanced-level escapes.

#### **KINPF - Personal Fitness**

- Upon completion of KIN PF, students should enable the student to calculate the "Target Heart Rate Formula."
- Upon completion of KIN PF, students should be able to complete a mile distance while doing a combination of walking and jogging within 15 minutes.
- Upon completion of KIN PF, students should be able to complete one mile walking in under 20 minutes.

#### **KINPL1 - Pilates 1**

- Upon completion of KIN PL1, students should be able to demonstrate correct alignment for Pilates mat work.
- Upon completion of KIN PL1, students should be able to demonstrate neutral spine, c-shape, and scoop.

#### **KINPL2 - Pilates 2**

- Upon completion of KIN PL2, students should be able to apply knowledge of core stabilization during Pilates exercises.
- Upon completion of KIN PL2, students should be able to correctly utilize Pilates props.
- Upon completion of KIN PL2, students should be able to demonstrate an increase in core strength.

#### **KINSD1 - Salsa Dance 1**

- Upon completion of KIN SD1, students should be able to conversant with the origins of Salsa and its historical and cultural context. This will be assessed by written final exam.
- Upon completion of KIN SD1, students should be able to perform the basic step, side step, openings, and couple hold. A skills analysis will be done to assess level of proficiency.

#### **KINSI1 - Soccer - Indoor 1**

- Upon completion of KIN SI1, students should be able to demonstrate beginning-level soccer skills.
- Upon completion of KIN SI1, students should be able to integrate the rules of the soccer during small and large sided scrimmages.
- Upon completion of KIN SI1, students should be able to recognize indoor soccer terminology.

### **KINSI2 - Soccer - Indoor 2**

- Upon completion of KIN SI2, students should be able to demonstrate intermediate-level soccer skills.

### **KINSO1 - Soccer - Outdoor 1**

- Upon completion of KIN SO1, students should be able to demonstrate beginning level proficiency in trapping, passing, dribbling, and shooting.

- Upon completion of KIN SO1, students should be able to demonstrate soccer knowledge including five phases of trapping, heading, kicking, passing, dribbling, and soccer formations.

### **KINSO2 - Soccer - Outdoor 2**

- Upon completion of KIN SO2, students should be able to demonstrate soccer knowledge including five phases of trapping, heading, kicking, passing, dribbling, and soccer field dimensions.

- Upon completion of KIN SO2, students should be able to evaluate, with use of video playback, individuals' soccer technique when demonstrating the: Push pass, driven pass, bent pass, shooting with laces, moves to beat the defender, 1v1 defending, and attacking and defensive heading.

- Upon completion of KIN SO2, students should be able to your opponent's tactic is to defend deep in numbers and counter-attack. Devise a practice and strategy that will prepare your team to outwit the opposition.

### **KINSW1 - Swimming 1**

- Upon completion of KIN SW1, students should be able to demonstrate competency of beginning level swimmers, including floating skills, and comfort in the water.

- Upon completion of KIN SW1, students should be able to demonstrate the basic techniques of elementary backstroke.

- Upon completion of KIN SW1, students should be able to demonstrate the basic techniques of freestyle and backstroke for 25 yards.

### **KINSW2 - Swimming 2**

- Upon completion of KIN SW2, students should be able to demonstrate competency of beginning-level swimming skills; including basic swim strokes (competitive and non-competitive) for 25 yards.

- Upon completion of KIN SW2, students should be able to illustrate the basic breathing technique for each of the four competitive strokes.

### **KINSW3 - Swimming 3**

- Upon completion of KIN SW3, students should be able to perform 100 yards of front crawl with proficient side-breathing and 100 yards backstroke, each with competitive flip-turn; 50 yards breaststroke and 50 yards butterfly, each with the correct competitive turn; 100 yard Individual Medley with correct turns, and a 500 yard continuous swim using any combination of swim strokes.

- Upon completion of KIN SW3, students should be able to utilize pace clocks to incorporate intervals in to a training regimen to enhance skill development.

### **KINSWF1 - Swimming for Fitness 1**

- Upon completion of KIN SWF1, students should be able to demonstrate improvement in a timed swim.

- Upon completion of KIN SWF1, students should be able to illustrate a personalized training program based upon aquatic training principles.

### **KINSWF2 - Swimming for Fitness 2**

- Upon completion of KIN SWF2, students should be able to demonstrate a training methodology that will increase power and speed in swimming.

- Upon completion of KIN SWF2, students should be able to demonstrate improvement in a timed sprint swim.

### **KINSWF3 - Swimming for Fitness 3**

- Upon completion of KIN SWF3, students should be able to demonstrate an improvement in a timed 500 yard swim.

- Upon completion of KIN SWF3, students should be able to demonstrate an improvement in a timed mid-distance swim.

- Upon completion of KIN SWF3, students should be able to demonstrate threshold pace throughout a given set.

### **KINSWF4 - Swimming for Fitness 4**

- Upon completion of KIN SWF4, students should be able to demonstrate improvement in a timed distance swim.

- Upon completion of KIN SWF4, students should be able to demonstrate the benefit of interval training and pacing through demonstrated improvement in a timed 20 minute swim.

- Upon completion of KIN SWF4, students should be able to identify the benefits of interval training and pacing as they relate to distance training.

**KINTK1 - Tae Kwon Do 1**

- Upon completion of KIN TK1, students should be able to demonstrate Tae Kwon Do skills including stances, kicking, punching, blocks, forms, controlled sparring, and fitness level.
- Upon completion of KIN TK1, students should be able to practice Martial Arts Etiquette and demonstrate the traditional philosophies employed in Taekwondo.
- Upon completion of KIN TK1, students should be able to show skill performance and assessment on specific exercises and techniques: Gi Bon Poomse, Taeguk Il Jang, Taeguk Ee Jang in accordance with World Taekwondo Federation regulations.

**KINTK2 - Tae Kwon Do 2**

- Upon completion of KIN TK2, students should be able to demonstrate respect, self defense and the way of the life.
- Upon completion of KIN TK2, students should be able to demonstrate Tae Kwon Do skills including stances, kicking, punching, blocks, forms, controlled sparring, and fitness level.

**KINTK3 - Tae Kwon Do 3**

- Upon completion of KIN TK3, students should be able to demonstrate sufficient knowledge regarding the traditional philosophy of Taekwondo, emphasizing respect towards masters and senior ranks, discipline and self-control in certain situations, and deep-rooted connections between Korean culture and the martial art.
- Upon completion of KIN TK3, students should be able to demonstrate various "Poomsae" in a series of systematic movements set in pattern which are necessary for defense and attack.
- Upon completion of KIN TK3, students should be able to show mastery of fundamental kicking and hand techniques that are based on Olympic-style Taekwondo.

**KINUF1 - Ultimate Frisbee 1**

- Upon completion of KIN UF1, students should be able to demonstrate beginning level catching, marking, and throwing skills.
- Upon completion of KIN UF1, students should be able to demonstrate improved cardiovascular endurance for the sport of ultimate.

**KINUF2 - Ultimate Frisbee 2**

- Upon completion of KIN UF2, students should be able to demonstrate continued improvement of cardiovascular endurance for the sport of Ultimate.

**KINUF3 - Ultimate Frisbee 3**

- Upon completion of KIN UF3, students should be able to demonstrate advanced-level catching, marking and throwing skills.
- Upon completion of KIN UF3, students should be able to maintain or improve cardiovascular fitness.

**KINUF4 - Ultimate Frisbee 4**

- Upon completion of KIN UF4, students should be able to demonstrate effective tactics in the sport of ultimate frisbee.
- Upon completion of KIN UF4, students should be able to maintain or improve cardiovascular fitness.

**KINVB1 - Volleyball Beginning**

- Upon completion of KIN VB1, students should be able to demonstrate cooperation and team work within round-robin play.
- Upon completion of KIN VB1, students should be able to demonstrate knowledge of the basic terminology and skills needed to participate in volleyball.

**KINVB2 - Volleyball Intermediate**

- Upon completion of KIN VB2, students should be able to demonstrate basic skills to include forearm passing, setting, attacking, digging, blocking, and serving.
- Upon completion of KIN VB2, students should be able to explain basic rules for indoor volleyball.
- Upon completion of KIN VB2, students should be able to perform agility footwork general to athletics and sport specific to volleyball.

**KINVB3 - Volleyball Advanced**

- Upon completion of KIN VB3, students should be able to perform the 4 serves, float, top spin, overhead and jump serve, taught in the course. A final skills assessment will be given.
- Upon completion of KIN VB3, students should be knowledgeable of the collegiate and international rules of volleyball. A rules exam will be given during the course.

**KINWP1 - Water Polo 1**

- Upon completion of KIN WP1, students should be able to demonstrate basic water polo skills: dribbling, passing, shooting.
- Upon completion of KIN WP1, students should be able to demonstrate knowledge of the rules of water polo.

**KINWP2 - Water Polo 2**

- Upon completion of KIN WP2, students should be able to demonstrate and explain 2 Meter offensive strategies.

- Upon completion of KIN WP2, students should be able to interpret NCAA rules and regulations and apply them in a competitive situation.
- Upon completion of KIN WP2, students should be able to organize a basic counterattack defense and offense.

### KINWP3 - Water Polo 3

- Upon completion of KIN WP3, students should be able to arrange a series of speed/quickness drills to reach a stated objective.
- Upon completion of KIN WP3, students should be able to demonstrate the water polo individual medley.

### KINWT1 - Weight Training 1

- Upon completion of KIN WT1, students should be able to demonstrate proper form while performing beginning level weight training exercises.
- Upon completion of KIN WT1, students should be able to display appropriate gym etiquette.
- Upon completion of KIN WT1, students should be able to identify the major muscle groups utilized in weight training exercises.

### KINWT2 - Weight Training 2

- Upon completion of KIN WT2, students should be able to demonstrate an increase in muscular strength.
- Upon completion of KIN WT2, students should be able to demonstrate proper form while performing intermediate weight training exercises.
- Upon completion of KIN WT2, students should be able to identify which major muscle groups are activated during specific weight training exercises.

### KINWTW1 - Women's Weight Training One

- Upon completion of KIN WTW1, students should be able to demonstrate appropriate weight room etiquette.
- Upon completion of KIN WTW1, students should be able to demonstrate proper form when executing beginning-level weight training exercises.
- Upon completion of KIN WTW1, students should be able to express weight training's benefits and effect on long-term health.

### KINWTW2 - Women's Circuit Training

- Upon completion of KIN WTW2, students should be able to distinguish between cardio equipment and musculoskeletal equipment to develop overall body endurance.
- Upon completion of KIN WTW2, students should be able to list 4 different circuits and the difference between each that is performed in class.

### KINYO1 - Yoga 1

- Upon completion of KIN YO1, students should be able to demonstrate an increase in their flexibility.
- Upon completion of KIN YO1, students should be able to demonstrate proper alignment in beginning level asanas.
- Upon completion of KIN YO1, students should be able to utilize various breathing techniques used in a yoga practice.

### KINYO2 - Yoga 2

- Upon completion of KIN YO2, students should be able to demonstrate proper alignment in intermediate level asanas.
- Upon completion of KIN YO2, students should be able to describe the benefits of breathing techniques used in a yoga practice.
- Upon completion of KIN YO2, students should be able to identify the eight limbs of yoga.

### KINZUM1 - Zumba Fitness Workout 1

- Upon completion of KIN ZUM1, students should be able to analyze Latin and international dance movements and integrate them into an aerobic routine.

## Nutrition

### CSLO

#### NTRN1 - Intro to Nutrition Science

- Upon completion of NTRN 1, the student should be able to analyze and critically assess the reliability and credibility of nutrition information and dietary advice, services and products.
- Upon completion of NTRN 1, the student should be able to analyze assigned nutrient intake compared to standard recommendations and make suggestions for improvement/maintenance of intake.
- Upon completion of NTRN 1, the student should be able to identify the key dietary risk factors influencing the development of chronic diseases in the United States.
- Upon completion of NTRN 1, the student should be able to 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.

**NTRN5 - Nutrition/Performance & Sport**

- Upon completion of NTRN 5, students will communicate nutrition information using credible resources.
- Upon completion of NTRN 5, students will be able to analyze and evaluate dietary intake relative to government guidelines and recommendations for athletes.
- Upon completion of NTRN 5, students will describe the basic principles of nutrition as they relate to sports performance.

**Welding Technology****CSLO****WLDT1 - Welding Camp**

- Upon completion of WLDT 1, a student should be able to demonstrate safe basic hand tool usage.
- Upon completion of WLDT 1, a student should be able to demonstrate safety awareness in the welding workplace.
- Upon completion of WLDT 1, a student should be able to fabricate a simplistic metal project.

**WLDT10 - Machining- Metal Trades**

- Upon completion of WLDT 10, a student should be able to demonstrate precision measuring using a caliper.
- Upon completion of WLDT 10, a student should be able to demonstrate precision measuring using a micrometer.
- Upon completion of WLDT 10, a student should be able to demonstrate safe usage of a metal turning lathe.
- Upon completion of WLDT 10, a student should be able to demonstrate safe usage of a milling machine.
- Upon completion of WLDT 10, a student should be able to demonstrate safety awareness in the machining workplace.

**WLDT55 - Print Reading for Industry**

- Upon completion of WLDT 55, a student should be able to demonstrate GD&T symbol identification and usage.
- Upon completion of WLDT 55, a student should be able to identify the three primary views in an orthographic drawing.
- Upon completion of WLDT 55, a student should be able to read and interpret a detail part drawing.

**WLDT61A - Beg. SMAW and FCAW Theory**

- Upon completion of WLDT 61A, a student should be able to demonstrate knowledge of the American Welding Society (AWS) SMAW electrode numbering system.
- Upon completion of WLDT 61A, a student should be able to demonstrate usage of welding symbols used on blueprints and technical drawings.
- Upon completion of WLDT 61A, a student should be able to identify welding electrodes used for common industrial welding processes/applications.

**WLDT61AL - Beg. SMAW and FCAW Skills Lab**

- Upon completion of WLDT 61AL, a student should be able to demonstrate safety awareness in the welding workplace.
- Upon completion of WLDT 61AL, a student should be able to demonstrate skills required to pass AWS D1.1 - 1G limited thickness A36 steel test plate using SMAW.
- Upon completion of WLDT 61AL, a student should be able to demonstrate skills required to pass an AWS D1.1 - 1G limited thickness A36 steel test plate using FCAW.

**WLDT61B - Adv. SMAW and FCAW Theory**

- Upon completion of WLDT 61B, a student should be able to demonstrate knowledge of common heat-treating processes for carbon steel.
- Upon completion of WLDT 61B, a student should be able to demonstrate knowledge of the American Welding Society (AWS) Flux Core Arc Welding (FCAW) electrode numbering system.
- Upon completion of WLDT 61B, a student should be able to using the AISI Steel Numbering System, identify carbon content in steel samples.

**WLDT61BL - Adv. SMAW and FCAW Skills Lab**

- Upon completion of WLDT 61BL, a student should be able to demonstrate safety awareness in the welding workplace.
- Upon completion of WLDT 61BL, a student should be able to demonstrate skills required to pass AWS D1.1 - 3G limited thickness A36 steel test plate using FCAW.
- Upon completion of WLDT 61BL, a student should be able to demonstrate skills required to pass AWS D1.1 - 3G limited thickness A36 steel test plate using SMAW.

**WLDT62A - Beg. GTAW and GMAW Theory**

- Upon completion of WLDT 62A, a student should be able to demonstrate knowledge of GMAW torch components.
- Upon completion of WLDT 62A, a student should be able to demonstrate knowledge of GTAW essential torch components.
- Upon completion of WLDT 62A, a student should be able to demonstrate usage of the AISI numbering system to identify carbon content in steel samples.

#### **WLDT62AL - Beg. GTAW and GMAW Skills Lab**

- Upon completion of WLDT 62AL, a student should be able to demonstrate safety awareness in the welding workplace.
- Upon completion of WLDT 62AL, a student should be able to demonstrate skills required to pass AWS D1.1 - 1G limited thickness A36 steel test plate using GMAW.
- Upon completion of WLDT 62AL, a student should be able to demonstrate skills required to pass AWS D1.1 - 1G limited thickness A36 steel test plate using GTAW.

#### **WLDT62B - Adv. GTAW and GMAW Theory**

- Upon completion of WLDT 62B, a student should be able to demonstrate knowledge of the American Welding Society GMAW steel electrode numbering system.
- Upon completion of WLDT 62B, a student should be able to demonstrate knowledge of the American Welding Society GTAW steel electrode color code.
- Upon completion of WLDT 62B, a student should be able to demonstrate usage of the AISI numbering system to identify carbon content in steel samples.
- Upon completion of WLDT 62B, a student should be able to demonstrate usage of the AWS numbering system for GMAW steel electrodes.
- Upon completion of WLDT 62B, a student should be able to demonstrate usage of the AWS numbering system for GTAW tungsten electrodes.

#### **WLDT62BL - Advanced GTAW/GMAW Skills Lab**

- Upon completion of WLDT 62BL, a student should be able to demonstrate safety awareness in the welding workplace.
- Upon completion of WLDT 62BL, a student should be able to demonstrate skills required to pass AWS D1.1 - 3G limited thickness A36 steel test plate using GMAW.
- Upon completion of WLDT 62BL, a student should be able to demonstrate skills required to pass AWS D1.1 - 3G limited thickness A36 steel test plate using GTAW.

#### **WLDT63 - Welding Layout and Fitting**

- Upon completion of WLDT 63, a student should be able to layout, cut, form, fit and weld a circular ring of a specified diameter.
- Upon completion of WLDT 63, a student should be able to demonstrate safety awareness in the welding workplace.
- Upon completion of WLDT 63, a student should be able to layout, Cut, Form, Fit, Weld a simple rectangular sheet metal box.

#### **WLDT66 - WELDING INSPECTION AND TESTING**

- Upon completion of WLDT 66, a student should be able to demonstrate safety awareness in the welding workplace.
- Upon completion of WLDT 66, a student should be able to demonstrate use and identify welding defects using Magnetic Particle Testing (MT).
- Upon completion of WLDT 66, a student should be able to layout, cut, form, fit and weld a circular ring of a specified diameter.

#### **WLDT67A - Welding Skills Lab**

- Upon completion of WLDT 67A, a student should be able to demonstrate safety awareness in the welding workplace.
- Upon completion of WLDT 67A, a student should be able to demonstrates self directed goals achievement.

#### **WLDT67B - Advanced Welding Skills Lab**

- Upon completion of WLDT 67B, a student should be able to demonstrate safety awareness in the welding workplace.
- Upon completion of WLDT 67B, a student should be able to demonstrates achievement of self directed goals.

#### **WLDT68 - Certification Preparation**

- Upon completion of WLDT 68, a student should be able to demonstrate safety awareness in the welding workplace.
- Upon completion of WLDT 68, a student should be able to demonstrates self directed goals achievement.

#### **WLDT69A - Beginning Pipe Welding**

- Upon completion of WLDT 69A, a student should be able to demonstrate safety awareness in the welding workplace.
- Upon completion of WLDT 69A, a student should be able to 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.
- Upon completion of WLDT 69A, a student should be able to layout longitudinal and circumferential lines on a piece of pipe.

**WLDT69B - Advanced Pipe Welding**

- Upon completion of WLDT 69B, a student should be able to demonstrate safety awareness in the welding workplace.
- Upon completion of WLDT 69B, a student should be able to 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.
- Upon completion of WLDT 69B, a student should be able to layout a mitered offset on a piece of pipe.

**WLDT70 - Introduction to Welding**

- Upon completion of WLDT 70, a student should be able to demonstrate safe use of SMAW equipment.
- Upon completion of WLDT 70, a student should be able to demonstrate safety awareness in the welding workplace.
- Upon completion of WLDT 70, a student should be able to identify welding electrodes used for common industrial welding processes/applications.

**WLDT71 - WELDING FOR THE ARTS**

- Upon completion of WLDT 71, a student should be able to demonstrate safety awareness in the welding workplace.
- Upon completion of WLDT 71, a student should be able to demonstrate the ability to form a piece of metal to the desired shape based on a template.
- Upon completion of WLDT 71, a student should be able to identify common metals used for creating metal sculpture.

**WLDT72A - Beginning Laser Welding**

- Upon completion of WLDT 72A, a student should be able to calculate the power density of a laser weld based on a given spot size.
- Upon completion of WLDT 72A, a student should be able to describe the difference between CW and pulsed laser welding.
- Upon completion of WLDT 72A, a student should be able to describe the difference between laser light and white light.

**WLDT72B - Intermediate Laser Welding**

- Upon completion of WLDT 72B, a student should be able to demonstrate measuring laser energy in a safe manner.
- Upon completion of WLDT 72B, a student should be able to describe safety measures needed to operate safely in a laser welding lab.
- Upon completion of WLDT 72B, a student should be able to operate a laser welding machine to make a successful butt weld on stainless steel.

**WLDT79 - MANUFACTURING PROCESSES**

- Upon completion of WLDT 79, a student should be able to produce a manufacturing traveler for a manufactured item or component.
- Upon completion of WLDT 79, a student should be able to provide an oral description of the processes used to make a manufactured item.

**STEM****Astronomy****CSLO****ASTR10 - The Solar System**

- Upon completion of ASTR 10, students should be able to describe the ways in which scientific principles have shaped the modern world and relate to daily life.
- Upon completion of ASTR 10, students should be able to explain physical principles relevant to the solar system and its formation, as well as those relevant to the search for extrasolar planets.
- Upon completion of ASTR 10, students should be able to use quantitative reasoning to determine relationships between physical quantities in astronomy.

**ASTR20 - Stars and the Universe**

- Upon completion of ASTR 20, students should be able to describe the ways in which scientific principles have shaped the modern world and relate to daily life.
- Upon completion of ASTR 20, students should be able to use quantitative reasoning to determine relationships between physical quantities in astronomy.
- Upon completion of ASTR 20, students should be able to explain physical principles relevant to light, telescopes, stars, galaxies, and cosmology.

**ASTR30L - Introduction to Astronomy Lab**

- Upon completion of ASTR 30L, students should be able to effectively communicate the methods, analysis, results, and conclusions of their own scientific experiments.

- Upon completion of ASTR 30L, students should be able to perform naked eye and telescopic observations of objects in the night sky.
- Upon completion of ASTR 30L, students should be able to quantitatively analyze their laboratory data, compare their results to accepted values, and evaluate the accuracy of their experiment.

## Biological Sciences

### CSLO

#### BIO1A - General Botany

- Upon completion of BIO 1A, students 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.
- Upon completion of BIO 1A, students should be able to explain and apply principles and processes of botany and ecology at different organizational levels, from the biochemical to the ecological.
- Upon completion of BIO 1A, students should be able to 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.
- Upon completion of BIO 1A, students will 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.

#### BIO1B - General Zoology

- Upon completion of BIO 1B, a student will 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.
- Upon completion of BIO 1B, a student should be able to conduct a research project and communicate experimental results using standard scientific methods.
- Upon completion of BIO 1B, a student should be able to explain and apply principles and processes of zoology and evolution at different organizational levels, from tissues to the ecological.
- Upon completion of BIO 1B, a student should be able to 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.

#### BIO1C - Cell and Molecular Biology

- Upon completion of BIO 1C, a 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.
- Upon completion of BIO 1C, a student should be able to explain and apply basic principles and processes of cellular and molecular biology at different levels, from the biochemical to the cellular.
- Upon completion of BIO 1C, a student should be able to 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.
- Upon completion of BIO 1C, a student will 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.

#### BIO7A - Human Anatomy

- Upon completion of BIO 7A, students will be able to identify the structures of the body systems using models, slides, cadavers, and/or visual media.
- Upon completion of BIO 7A, students will be able to relate structure to the function of anatomical structures and understand how a change in structure would alter function.

#### BIO7B - Human Physiology

- Upon completion of BIO 7B, students will be able to apply the principles of homeostasis and the use of feedback loops to control physiological systems in the human body.
- Upon completion of BIO 7B, students will be able to evaluate physiological functions of select organ systems by interpreting graphs of physiological data and be able to solve allied-based math problems.
- Upon completion of BIO 7B, students will be able to 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.

#### BIO7C - Microbiology

- Upon completion of BIO 7C, students will be able to acquire, articulate, and apply specialized language and knowledge relevant to microbiology.
- Upon completion of BIO 7C, students will 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.
- Upon completion of BIO 7C, students will explain and demonstrate the theoretical and practical aspects of using a compound microscope to study microorganisms using the oil immersion objective lens.
- Upon completion of BIO 7C, students will 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.

**BIO10 - Intro to the Science of Biol**

- Upon completion of BIO 10, students 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.
- Upon completion of BIO 10, students should be able to explain and apply basic principles of ecology, cellular, evolutionary, and organismal biology.
- Upon completion of BIO 10, students should be able to properly manipulate a compound microscope and demonstrate knowledge of its parts and uses.
- Upon completion of BIO 10, students will 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.

**BIO20 - Contemporary Human Biology**

- Upon completion of BIO 20, students should be able to describe and relate the physical structure of the cells, tissues types and organ systems to their function.
- Upon completion of BIO 20, students will be able to 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.

**BIO30 - Intro to College Biology**

- Upon completion of BIO 30, students 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.
- Upon completion of BIO 30, students should be able to demonstrate writing proficiency on a written assignment which incorporates scientific data and/or basic principles of biology.
- Upon completion of BIO 30, students should be able to explain basic principles of biochemistry, ecology, and cellular, evolutionary, and organismal biology.
- Upon completion of BIO 30, students should be able to properly manipulate a compound microscope and demonstrate knowledge of its parts and uses.
- Upon completion of BIO 30, students should 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.

**BIO40 - Humans and the Environment**

- Upon completion of BIO 40, students should be able to analyze and critically evaluate environmental information from various sources, and present their findings.
- Upon completion of BIO 40, students should be able to discuss environmental problems, their causes and evaluate solutions.
- Upon completion of BIO 40, students should be able to 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.

**BIO50 - Anatomy and Physiology**

- Upon completion of BIO 50, students will be able to list the organ systems, identify the structures of each organ system and explain their general functions.
- Upon completion of BIO 50, students will be able to research a relevant anatomical or physiological topic and communicate their findings to others, demonstrating content knowledge acquired from reliable scientific sources.

**BIO55 - Orientation to Health Care**

- Upon completion of BIO 55, students will be able to discuss contemporary physiological, psychological, ethical, social, and public health issues.
- Upon completion of BIO 55, students will be able to explore different health care occupations and create an educational action plan that aligns their interests, skills, and personality characteristics to a particular career path.

**BIO60 - Marine Biology**

- Upon completion of BIO 60, students 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.
- Upon completion of BIO 60, students should be able to differentiate various marine ecosystems, compare and contrast representative marine organisms, and understand their interdependence.
- Upon completion of BIO 60, students will be able to properly manipulate a compound microscope and dissecting microscope to study marine microorganisms and internal structures of marine organisms.
- Upon completion of BIO 60, students will 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.

**Chemistry****CSLO****CHEM1A - General College Chemistry I**

- Upon completion of CHEM 1A, 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 General College Chemistry First Term Exam.

### CHEM1B - General College Chemistry II

- Upon completion of CHEM 1B, 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 General College Chemistry Full Year Exam.

### CHEM12A - Organic Chemistry I

- Upon completion of CHEM 12A, the student should be able to write detailed reaction mechanisms.

### CHEM12B - Organic Chemistry II

- Upon completion of CHEM 12B, 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 Organic Chemistry series exam (beginning SP2015).

### CHEM30A - Intro and Applied Chemistry I

- Upon completion of CHEM 30A, the student should be able to define concentration units of solutions (e.g., molarity and % concentration) and use these definitions in problem solving.
- Upon completion of CHEM 30A, 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 comprehensive final exam.

### CHEM30B - Intro and Applied Chemistry II

- Upon completion of CHEM 30B, the student should be able to describe the functions of different types of biological molecules.

### CHEM31 - Intro to College Chemistry

- Upon completion of CHEM 31, 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.

## Computer Information Systems

### CSLO

#### CIS8 - Essential Computing Skills

- Upon completion of CIS 8, the student should be able to apply basic formatting to Word documents, create basic Excel spreadsheets, and create PowerPoint presentations that contain text and graphics.
- Upon completion of CIS 8, the student should be able to perform basic file management tasks such as copying and moving files and folders and perform Internet searches to find specific data.

#### CIS43 - Professional Communications

- Upon completion of CIS 43, 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.
- Upon completion of CIS 43, the student should be able to demonstrate clear, compelling, analytical, and concise writing.

#### CIS50 - Intro to Computing Info Tech

- Upon completion of CIS 50, the student should be able to demonstrate basic computing literacy by using office applications, the Internet and computer-based tutorials.

#### CIS54 - Excel: Intro to Spreadsheets

- Upon completion of CIS 54, the student should be able to analyze a business problem and apply appropriate Excel formulas, functions, and features to develop a solution.

#### CIS55 - Integrating Office Application

- Upon completion of CIS 55, the student should be able to construct projects efficiently generating solutions using various workplace computer programs.
- Upon completion of CIS 55, the student should be able to use Object Linking and Embedding (OLE), to create integrated Office documents.

#### CIS55B - Advanced MS Office Skills

- Upon completion of CIS 55B, the student should be able to demonstrate the ability to create complex word processing documents using advanced text and document formatting, special functions, and save, print, and retrieve document functions.

#### CIS57 - Database Concepts

- Upon completion of CIS 57, the student should be able to create a table in a database; include with at least three fields using different field types.

- Upon completion of CIS 57, the student should be able to produce a printed report based on a subset of data.
- Upon completion of CIS 57, the student should be able to query a table to create a subset of data based on a defined criteria.

### **CIS59 - Web Dev: HTML/CSS/Javascript**

- Upon completion of CIS 59, the student should be able to build web sites using Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS) with the foundation skills such as: text configurations, color configuration and page layout to create Web Sites with enhanced focus on design, accessibility and Web standards.

### **CIS59C - Web Programming - JavaScript**

- Upon completion of CIS 59C, 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.

### **CIS60 - Systems Analysis and Design**

- Upon completion of CIS 60, the student should be able to create survey questions to identify client requirements.

### **CIS62 - Project Management**

- Upon completion of CIS 62, the student should be able to produce a project plan to ensure successful delivery and stakeholder satisfaction.

### **CIS65 - Intro to Desktop Operating Sys**

- Upon completion of CIS 65, the student should be able to install and configure desktop operating systems.

### **CIS66 - Networking Fundamentals**

- Upon completion of CIS 66, the student should be able to install, configure, secure, and troubleshoot home or business networks.

### **CIS71A - Keyboarding (The Alphabet)**

- Upon completion of CIS 71A, students will demonstrate proficiency of 30 words per minute on a 1-minute write with 1 or fewer errors.

### **CIS71B - Keyboard (Numbers and Symbols)**

- Upon completion of CIS 71B, students will be to demonstrate accurate keyboarding input for all keys on the keyboard at the net words per minute (adjusted for errors) rate of 22 nwpm or better, apply typing technique to avoid muscle strain or injury, and demonstrate proofreading skill.

### **CIS71C - Skills Improvement**

- Upon completion CIS 71C, students will 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.

### **CIS72A - Data Management**

- Upon completion of CIS 72A, students will be able to utilize a database application to enter, edit, find, sort, and delete records and to create queries and reports, including mailing labels.

### **CIS72B - Basic Office Integration**

- Upon completion of CIS 72B, students will be able to embed and link data stored in an Excel worksheet into a Word document.
- Upon completion of CIS 72B, students will be able to use spreadsheet software in document reporting and presentation and integrate spreadsheets with other software for business communication.

### **CIS73A - Ten-Key Skill Development**

- Upon completion of CIS 73A, students will be able to key numeric data using the numeric keypad at a minimum rate of 90 strokes per minute with 98 percent accuracy.

### **CIS74 - Office Procedures**

- Upon completion of CIS 74, students will 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.
- Upon completion of CIS 74, students will 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.

### **CIS75 - Office Tech./Communications**

- Upon completion of CIS 75, students will be able to demonstrate effective and efficient telephone techniques for answer phones, taking messages, and assisting customers in a business environment.
- Upon completion of CIS 75, students will be able to use email systems such as Outlook to create contacts, calendar appointments, and send email messages.

### **CIS79 - Medical Office Procedure**

- Upon completion of CIS 79, students will 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, billing, recordkeeping, postal services, health insurance, coding, and utilizing the Internet for online financial services and resources.

**CIS84 - Windows**

- Upon completion of CIS 84, students will be able to perform file and folder management tasks, such as copying, moving, deleting, and renaming files and folders; launch multiple applications; and use proper shut down procedures.

**CIS88A - Introduction to Microsoft Word**

- Upon completion of CIS 88A, students will be able to create, save, retrieve, edit and print documents in correct business formats.

**CIS88B - Adv Microsoft Word**

- Upon completion of CIS 88B, students will 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.

**CIS89A - Desktop Presentation**

- Upon completion of CIS 89A, students will be to design, create, and view slide show presentation.

**CIS89B - Desktop Publishing**

- Upon completion of CIS 89B, students will be able to plan, design, create publications using Microsoft Publisher.

**CIS9001 - Database Design Methodology**

- Upon completion of CIS 9001, students will be able to identify the steps of the database planning life cycle.

**CIS9002 - DATABASE DESIGN/SQL PROG**

- Upon completion of CIS 9002, students will be able to write SQL SELECT statements that display data from single or multiple tables.

**CIS9003 - Oracle: Database Prog PL/SQL**

- Upon completion of CIS 9003, students will be able to use PL/SQL programming constructs and conditionally control code flow (loops, control structures, and explicit cursors).

**Computer Networking Technology****CSLO****CNT43 - Professional Communications**

- Upon completion of CNT 43, students will 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.

- Upon completion of CNT 43, students will be able to demonstrate clear, compelling, analytical, and concise writing.

**CNT51 - CompTIA'S A+ Cert. Comp. Tech**

- Upon completion of CNT 51, students will be able to install, configure, and troubleshoot operating systems and applications.

- Upon completion of CNT 51, students will be able to install, configure, secure, and troubleshoot PC/Networking/Mobile devices.

**CNT52 - Networking Fundamentals**

- Upon completion of CNT 52, students will be to install, configure, secure, and troubleshoot home or business networks.

**CNT55 - MCSA-I Windows Server**

- Upon completion of CNT 55, students will be able to install, configure, secure, and troubleshoot Windows server in a domain environment.

**CNT56 - MSCA II Networking Windows Ser**

- Upon completion of CNT 56, students will be able to install, configure, secure, and troubleshoot IP Services in a Windows server domain environment.

**CNT57 - MS Server Adv.Serv. MCSA III**

- Upon completion of CNT 57, students will be able to configure advanced Active Directory services.

- Upon completion of CNT 57, students will be able to configure advanced business continuity and availability services.

- Upon completion of CNT 57, students will be able to configure advanced network and server services.

**CNT68 - Intro to Computer Forensics**

- Upon completion of CNT 68, students will be able to apply standard computer forensics methodologies and tools to acquire, store, and analyze data.

**CNT69 - Network Security; CompTIA**

- Upon completion of CNT 69, students will be able to evaluate network security risks and responses.

**CNT7285 - Cloud Infrastructure: CompTIA**

- Upon completion of CNT 7285, students will be able to identify and differentiate various infrastructure components of classic and virtualized data center.

**CNT7401 - Intro.to Linux/LPI Linux Cert.**

- Upon completion of CNT 7401, students will be able to apply basic shell programming, including text manipulations, file I/O, and typical Linux/UNIX utility programs.
- Upon completion of CNT 7401, students will be able to create Linux desktop installation specifications.
- Upon completion of CNT 7401, students will be able to develop detailed design specifications for a substantive application, including major subsystems and interfaces.

**CNT7501 - Ethical Hacking**

- Upon completion of CNT 7501, students will be able to report network security analysis observations.

**CNT7701 - IT Virtualization,Data,VMware**

- Upon completion of CNT 7701, students will be able to configure and manage VMware ESX networking and storage using vCenter Server.

**CNT8001 - Intro. to Networks (CCNA1)**

- Upon completion of CNT 8001, students will be able to build a simple Ethernet network using routers and switches.

**CNT8002 - Routing and Switching (CCNA2)**

- Upon completion of CNT 8002, students will be able to configure and set-up static routing.
- Upon completion of CNT 8002, students will be able to implement VLAN and VLAN routing.

**Computer Science****CSLO****CS1 - Computing Fundamentals I**

- Upon completion of CS 1, students will be able to design and implement a programmer-defined function in C++.
- Upon completion of CS 1, students will be able to develop a C++ program that demonstrates fundamental syntax and utilizes control structures.

**CS2 - Computing Fundamentals II**

- Upon completion of CS 2, students will be able to design and implement a programmer-defined class using encapsulation and inheritance in C++.
- Upon completion of CS 2, students will be able to develop a C++ program that utilizes programmer-defined overloaded functions, overloaded operators, and friend functions.

**CS7 - Intro to Computer Programming**

- Upon completion of CS 7, students will be able to explain and implement programmer-defined functions in Python.

**CS16 - Mobile App.Development- iPhone**

- Upon completion of CS 16, students will be able to create several Objective C / Cocoa Touch programs of moderate to substantial complexity.
- Upon completion of CS 16, students will be able to explain and use fundamental Objective C concepts and syntax elements, including classes and objects, properties, strings, arrays and dictionaries.

**CS17 - Discrete Math Structures**

- Upon completion of CS 17, students should be able to determine whether a relation is an equivalence relation.
- Upon completion of CS 17, students 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.
- Upon completion of CS 17, students should be able to use mathematical reasoning and counting techniques to correctly enumerate the number of ways in which a specified event can occur.
- Upon completion of CS 17, students should be able to write a coherent formal proof using mathematical induction.

**CS18 - Mobile Application Dev.Android**

- Upon completion of CS 18, students will be able to create Android/Java-based Touch programs of moderate to substantial complexity.
- Upon completion of CS 18, students will be able to explain and use fundamental Java/Android concepts and syntax elements, including classes and objects, properties, strings, arrays and ArrayLists to contain user information/data.

**CS20 - Adv Prog w/Data Structures/C++**

- Upon completion of CS 20, students will be able to demonstrate the use of fundamental syntax and control structures - including variables, arithmetic statements, if statements and loops.
- Upon completion of CS 20, students will be able to implement programs using linked lists, stacks, queues and binary trees, including implementations using the Standard Template Library.
- Upon completion of CS 20, students will be able to interpret and implement code using typical forms of recursion.

**CS21 - Assembly Language Programming**

- Upon completion of CS 21, students will be able to implement the assembly equivalent of while loops, for loops and switch statements.
- Upon completion of CS 21, students will be able to interpret and apply the machine representation of integers, characters, strings and floating point (e.g., IEEE format) numbers.

**CS31 - Java Programming**

- Upon completion of CS 31, students will be able to create and use programmer-defined functions in Java.

**CS41 - Intro to Linux/LPI Linux+ Cert**

- Upon completion of CS 41, students will be able to apply basic shell programming, including text manipulations, file I/O, and typical Linux/UNIX utility programs.
- Upon completion of CS 41, students will be able to create Linux desktop installation specifications.
- Upon completion of CS 41, students will be able to develop detailed design specifications for a substantive application, including major subsystems and interfaces.

**CS43 - Professional Communications**

- Upon completion of CS 43, students will 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.
- Upon completion of CS 43, students will be able to demonstrate clear, compelling, analytical, and concise writing.

**CS45 - Database Programming**

- Upon completion of CS 45, students will be able to convert business rules into a database design to support such rules.
- Upon completion of CS 45, students will be able to develop applications using both relational and non-relational (no-sql) database systems.
- Upon completion of CS 45, students will be able to implement a data model on both local and server-based RDBMS systems.

**CS47 - Capstone Project**

- Upon completion of CS 47, students will be able to develop detailed design specifications for a substantive application, including major subsystems and interfaces.

**Engineering****CSLO****ENGR1 - Introduction to Engineering**

- Upon completion of ENGR 1, students will be able to design and build a structure to solve an engineering design problem.
- Upon completion of ENGR 1, students will be able to identify and differentiate between the different engineering branches.
- Upon completion of ENGR 1, students will be able to use Microsoft Excel in engineering applications.

**ENGR23 - Engineering Design Graphics**

- Upon completion of ENGR 23, students will be able to construct a solid model within CAD given only information found in orthographic projection.
- Upon completion of ENGR 23, students will be able to construct an assembly drawing in SolidWorks.
- Upon completion of ENGR 23, students will be able to create a drawing using several different geometric dimensions and tolerances.
- Upon completion of ENGR 23, students will be able to identify and draw the different types of sectional views.

**ENGR26 - Comp Methods Engineer/ Science**

- Upon completion of ENGR 26, the students will be able to create and call function files within MATLAB.
- Upon completion of ENGR 26, the students will be able to use Microsoft Excel to generate graphs.
- Upon completion of ENGR 26, the students will be able to use numerical methods in Microsoft Excel to solve engineering problems.

- Upon completion of ENGR 26, the students will be able to use vectors in MATLAB to analyze technical problems.

### ENGR35 - Statics

- Upon completion of ENGR 35, the students will be able to analyze 2D and 3D force systems acting on engineering structures in static equilibrium.
- Upon completion of ENGR 35, the students will be able to construct a free-body diagram.
- Upon completion of ENGR 35, the students will be able to create and analyze shear force and bending moment diagrams for beam loading.
- Upon completion of ENGR 35, the students will be able to resolve a force vector into cartesian component form.

### ENGR37 - Applied Statics and Materials

- Upon completion of ENGR 37, the students will be able to construct a free-body diagram.

### ENGR44 - Intro to Circuit Analysis

- Upon completion of ENGR 44, the students will be able to analyze a 1st-order RL or RC electrical circuit.
- Upon completion of ENGR 44, the students will be able to analyze a 2nd-order RLC electrical circuit.
- Upon completion of ENGR 44, the students will be able to analyze electrical circuits using circuit simulation software.
- Upon completion of ENGR 44, the students will be able to construct and analyze circuits on breadboards using standard electronic equipment.

### ENGR46 - Materials of Engineering

- Upon completion of ENGR 46, the students will be able to identify and explain the five different classes of engineering materials.
- Upon completion of ENGR 46, the students will be able to use appropriate terminology related to material properties.
- Upon completion of ENGR 46, the students will be able to use standard materials testing equipment to determine material properties.

## Environmental Studies

### CSLO

#### EVST5 - Energy and Sustainability

- Upon completion of EVST 5, students should be able to evaluate energy efficiency in residential spaces and develop a plan to reduce energy use and cost.
- Upon completion of EVST 5, students should be able to explain scientific principles and economic factors underlying commercial methods of energy generation (e.g., fossil fuels, solar, wind).
- Upon completion of EVST 5, students should be able to explain the practical meaning of sustainability in terms of climate change and environmental degradation on a planet with limited resources and a growing population.

## Geography

### CSLO

#### GEOG1 - Intro to Physical Geography

- Upon completion of GEOG 1, students will be able to understand the difference between divergent, convergent and transform plate boundaries.
- Upon completion of GEOG 1, students will be able to understand the global wind patterns and how they form.
- Upon completion of GEOG 1, students will be able to understand the reasons why the seasons change.

#### GEOG1L - Intro. Physical Geography Lab

- Upon completion of GEOG 1L, students will be able to diagram and identify (explain) earth / sun relations).
- Upon completion of GEOG 1L, students will be able to identify major climate controls and be able to explain why certain climates are located where they are.
- Upon completion of GEOG 1L, students will be able to locate plate boundaries based on the type of tectonic activity and be able to explain why they are located where they are.

#### GEOG2 - Cultural Geography

- Upon completion of GEOG 2, students will be able to define, describe and explain the Multi-Nuclei model or urban development.
- Upon completion of GEOG 2, students will be able to differentiate between the different types of cultural diffusion.
- Upon completion of GEOG 2, students will be able to explain the Demographic Transition Model.

#### GEOG5 - World Regional Geography

- Upon completion of GEOG 5, students will be able to locate and label on a map different cities of the world as discussed in class.
- Upon completion of GEOG 5, students will be able to locate and label on a map different rivers and landforms of the world as discussed in class.
- Upon completion of GEOG 5, students will be able to locate and label on a map the different countries of the world as discussed in class.

### **GEOG8 - Intro to Atmospheric Science**

- Upon completion of GEOG 8 students will be able to define and describe the climates of the world as defined by Koppen.
- Upon completion of GEOG 8, students will be able to define different type of fronts and use these fronts on the map to predict the weather for a specific area.
- Upon completion of GEOG 8, students will be able to identify and describe the differences between stable and unstable air and give the expected weather characteristics.

### **GEOG12 - Geography of California**

- Upon completion of GEOG 12, students will be able to identify different California cities, rivers, landforms on a blank map.
- Upon completion of GEOG 12, students will be able to identify different canals in California and state if they are federal, state or privately controlled.
- Upon completion of GEOG 12, students will be able to identify the different climates that exist in California.

### **GEOG15 - Introduction to GIS**

- Upon completion of GEOG 15, students will be able to produce a printed map which demonstrates the basic concepts of cartographic design.

## **Geology**

### **CSLO**

#### **GEOL1 - Physical Geology**

- Upon completion of Geology 1, students will be able to define and identify the geology of divergent, convergent and transform plate tectonic environments.
- Upon completion of Geology 1, students will be able to identify and define the basic properties of minerals.
- Upon completion of Geology 1, students will be able to identify and differentiate the basic ages of the Geologic Time Scale.

#### **GEOL1L - Physical Geology Laboratory**

- Upon completion of Geology 1 laboratory, students will be able to evaluate and differentiate mineral samples.
- Upon completion of Geology 1 laboratory, students will be able to evaluate and differentiate rock samples.
- Upon completion of Geology 1 laboratory, students will be able to evaluate and interpret geologic diagrams encapsulating geologic histories.

#### **GEOL2 - Historical Geology with Lab**

- Upon completion of Geology 2, students will be able to define and identify the geology of divergent, convergent and transform plate tectonic environments.
- Upon completion of Geology 2, students will be able to define and identify the geology of divergent, convergent and transform plate tectonic environments.
- Upon completion of Geology 2, students will be able to evaluate and interpret geologic diagrams encapsulating geologic histories (sequences of events).
- Upon completion of Geology 2, students will be able to evaluate and interpret geologic diagrams encapsulating geologic histories (sequences of events).
- Upon completion of Geology 2, students will be able to evaluate and/or interpret geologic diagrams encapsulating geologic histories (sequences of events).
- Upon completion of Geology 2, students will be able to identify and differentiate fossil samples.

#### **GEOL5 - ENVIRON.GEOL:HAZARDS/DISASTERS**

- Upon completion of Geology 5, students will be able to define and identify the geology of divergent, convergent and transform plate tectonic environments.
- Upon completion of Geology 5, students will be able to identify and/or explain the fundamentals of stream systems, including flooding.
- Upon completion of Geology 5, students will be able to identify and/or explain volcanic geohazards.

#### **GEOL7 - ENVI GEOL:RESC/USE IMPACT/POLL**

- Upon completion of Geology 7, students will be able to define and identify the geology of divergent, convergent and transform plate

tectonic environments.

- Upon completion of Geology 7, students will be able to identify and differentiate the various types of fossil fuels.
- Upon completion of Geology 7, students will be able to identify and/or evaluate the various methods of groundwater pollution.

### GEOL12 - Introduction to Oceanography

- Upon completion of Geology 12, students will be able to analyze, differentiate and/or identify the basic marine life habitats.
- Upon completion of Geology 12, students will be able to define and identify the geology of divergent, convergent and transform plate tectonic environments.
- Upon completion of Geology 12, students will be able to identify and differentiate basic marine geomorphologies (e.g., seamounts, guyots, continental shelf, submarine canyons, etc.)

### GEOL12L - Intro to Oceanography Lab

- Upon completion of Geology 12 laboratory, students will be able to construct bathymetric contours.
- Upon completion of Geology 12 laboratory, students will be able to evaluate (test and identify) sea floor samples.
- Upon completion of Geology 12 laboratory, students will be able to interpret bathymetric maps.

## Horticulture

### CSLO

#### HORT50 - Introduction to Horticulture

- Upon completion of HORT 50, the student will be able to demonstrate a clear understanding of the photosynthetic process.
- Upon completion of HORT 50, the student will be able to propagate a plant by taking vegetative cuttings.
- Upon completion of HORT 50, the student will be able to propagate plants by germinating seeds and caring for seedlings.

#### HORT51 - FALL PLANT MATERIAL ID

- Upon completion of HORT 51, the student will be able to identify Fall landscape plants by their botanical and common names.
- Upon completion of HORT 51, the student will be able to select the proper care and maintenance of landscape plants.
- Upon completion of HORT 51, the student will be able to choose appropriate plants based on their climatic needs.

#### HORT53 - Landscape/Vineyard Pest Mgt.

- Upon completion of HORT 53, the student will be able to accurately identify common insect, weed pests, and plant diseases.
- Upon completion of HORT 53, the student will be able to design an Integrated Pesticide Program for Landscapes or Vineyards.

#### HORT54 - Landscape and Vineyard Soils

- Upon completion of HORT 54, the student will be able to demonstrate knowledge of soil amendments, soil substitutes, their use and application in landscapes and vineyards.

#### HORT55 - Greenhouse, Nursery, Garden Mtg.

- Upon completion of HORT 55, the student will be able to accurately describe the various specialties within the nursery industry.
- Upon completion of HORT 55, the student will be able to successfully grow, merchandise and sell plants.

#### HORT56 - Arboriculture Urban Forestry

- Upon completion of HORT 56, the student will be able to research a tree assessment/survey and extract the knowledge contained therein to make sound tree maintenance decisions.
- Upon completion of HORT 56, the student will be able to safely demonstrate the proper, safe use and application of tools and equipment used specifically for arboriculture.
- Upon completion of HORT 56, the student will be able to understand how good quality nursery trees are selected and trained.

#### HORT57 - Landscape and Turfgrass Mgmt

- Upon completion of HORT 57, the student will be able to identify the species and varieties of turf grasses commonly used in Northern California.
- Upon completion of HORT 57, the student will be able to understand and communicate landscape maintenance industry standards and business practices.
- Upon completion of HORT 57, the student will demonstrate how to properly schedule and perform basic landscape turf maintenance tasks such as mowing, edging, nutritional amendments, and irrigation system adjustment and monitoring.

#### HORT58 - Landscape Construction

- Upon completion of HORT 58, the student will be able to demonstrate knowledge of landscape design and plan reading.
- Upon completion of HORT 58, the student will be able to demonstrate understanding of basic landscape construction techniques.
- Upon completion of HORT 58, the student will be able to utilize construction materials, tools, and equipment safely.

### HORT59 - Landscape Design

- Upon completion of HORT 59, the student will be able to demonstrate graphics drawing skills for landscape architectural design.

### HORT60 - Landscape Irrigation Systems

- Upon completion of HORT 60, the student will be able to identify and install landscape irrigation components.
- Upon completion of HORT 60, the student will be able to read and prepare a landscape irrigation plan.
- Upon completion of HORT 60, the student will be able to repair common irrigation malfunctions.

### HORT62 - CALIF NATIVE & DRY LANDSCAPES

- Upon completion of HORT 62, the student will be able to identify California Native and drought tolerant plants by their botanical and common names.
- Upon completion of HORT 62, the student will be able to identify principles and components of a drip irrigation system.
- Upon completion of HORT 62, the student will be able to prepare a basic plan for a drought tolerant landscape.

### HORT63 - Sustainable Landscapes

- Upon completion of HORT 63, the student will be able to demonstrate knowledge of design and construction principles employed in sustainable landscaping.
- Upon completion of HORT 63, the student will be able to demonstrate understanding of landscape ecosystems.
- Upon completion of HORT 63, the student will be able to understand and utilize sustainable maintenance procedures.

### HORT67 - Interior Plantscapes

- Upon completion of HORT 67, the student will be able to identify the interior plants used on the CCNPRO, California Certified Nursery Professional, exam.
- Upon completion of HORT 67, the student will be able to propagate interior plants using various propagation techniques.
- Upon completion of HORT 67, the student will be able to understand the physiological and psychological benefit of interior plants.

## Math

### CSLO

#### MATH1 - Calculus I

- Upon completion of Math 1, a student should be able to construct an optimization model and use it to find the desired quantity.
- Upon completion of Math 1, a student should be able to evaluate and interpret a definite integral.
- Upon completion of Math 1, a student should be able to integrate a function involving a u-substitution.
- Upon completion of Math 1, a student should be able to find the roots of a function using Newton's method.
- Upon completion of Math 1, a student should be able to find the volume of a solid of revolution using washers or shells.

#### MATH2 - Calculus II

- Upon completion of Math 2, a student should be able to determine an arc length using parametric equations.
- Upon completion of Math 2, a student should be able to determine the interval of convergence for a power series.
- Upon completion of Math 2, a student should be able to evaluate an integral using a power series representation.
- Upon completion of Math 2, a student should be able to integrate a function using a partial fraction expansion.
- Upon completion of Math 2, a student should be able to numerically evaluate an integral using Simpson's Rule and determine the error.

#### MATH3 - Multivariable Calculus

- Upon completion of Math 3, a student should be able to evaluate a surface integral.
- Upon completion of Math 3, a student should be able to evaluating a surface integral for vector functions using parameterization of the surface or using the Divergence theorem.
- Upon completion of Math 3, a student should be able to interpret directional derivatives, including the gradient.

- Upon completion of Math 3, a student should be able to solve an optimization problem by using the method of LaGrange multipliers.

### MATH5 - Ordinary Differential Equation

- Upon completion of Math 5, a student should be able to construct and interpret the solution of a mass-spring system.
- Upon completion of Math 5, a student should be able to model an RLC using differential equations.
- Upon completion of Math 5, a student should be able to use a 4th order Runge-Kutta algorithm to solve an equation numerically.
- Upon completion of Math 5, a student should be able to use the method of Laplace transforms to solve differential equation.

### MATH7 - Elementary Linear Algebra

- Upon completion of Math 7, a student should be able to determine if a set is a subspace of a vector space.
- Upon completion of Math 7, a student should be able to diagonalize a matrix.
- Upon completion of Math 7, a student should be able to set up a system of Linear Equations to represent a network and then solve the system.
- Upon completion of Math 7, a student should be able to use software to solve a least squares problem.

### MATH10 - Discrete Mathematics

- Upon completion of Math 10, a 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.
- Upon completion of Math 10, a student should be able to determine whether a relation is an equivalence relation.
- Upon completion of Math 10, a student should be able to use mathematical reasoning and counting techniques to correctly enumerate the number of ways in which a specified event can occur.
- Upon completion of Math 10, a student should be able to write a coherent formal proof using mathematical induction.

### MATH30 - College Algebra for STEM

- Upon completion of Math 30, a student should be able to find all of the zeros of a polynomial function.
- Upon completion of Math 30, a student should be able to find extrema and zeros using a graphing calculator and/or other technology.
- Upon completion of Math 30, a student should be able to graph and identify the main features of a rational function without using a graphing utility.
- Upon completion of Math 30, a student should be able to model a problem using exponential growth or decay.

### MATH33 - Finite Mathematics

- Upon completion of Math 33, a student should be able to find the probability of an event and explain the meaning of the value found.
- Upon completion of Math 33, a student should be able to model an applied problem by writing a system of linear inequalities or equalities.
- Upon completion of Math 33, a student should be able to solve a system of linear equations in matrix form by hand (without using a calculator).
- Upon completion of Math 33, a student should be able to use the financial functions on a graphing calculator to answer questions about loans or annuities.
- Upon completion of Math 33, a student should be able to 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.

### MATH34 - Calc for Bus and Soc Sciences

- Upon completion of Math 34, a student should be able to calculate the marginal cost, marginal profit, and marginal revenue and discuss their meaning in the context of an applied problem.
- Upon completion of Math 34, a student should be able to evaluate a definite or indefinite integral symbolically by hand using the technique of substitution.
- Upon completion of Math 34, a student should be able to graph an elementary function by hand using the 1st and 2nd derivatives.
- Upon completion of Math 34, a student should be able to solve an amortization problem involving the use of a calculator.
- Upon completion of Math 34, a student should be able to write a differential equation that models an applied problem.

### MATH39 - Trigonometry

- Upon completion of Math 39, a 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.
- Upon completion of Math 39, a student should be able to identify and describe the period, amplitude and phase shift of a sine or cosine function.
- Upon completion of Math 39, a student should be able to solve a trigonometric equation that does not involve any of the standard angles as solutions, making usage of a calculator necessary.

- Upon completion of Math 39, a student should be able to solve a trigonometric equation using factoring and identities.
- Upon completion of Math 39, a student should be able to solve an application problem using law of sines or law of cosines.

#### **MATH40 - Statistics and Probability**

- Upon completion of Math 40, a student should be able to build a frequency distribution for, and make a histogram of, quantitative data.
- Upon completion of Math 40, a student should be able to 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.
- Upon completion of Math 40, a student should be able to perform the steps for a hypothesis test about a single population parameter and interpret the result.
- Upon completion of Math 40, a student should be able to solve an application problem using the central limit theorem.
- Upon completion of Math 40, a student should be able to use a computer program to make a graph of categorical data.

#### **MATH47 - Mathematics for Liberal Arts**

- Upon completion of Math 47, a student should be able to develop and use an appropriate model (linear or exponential) for a given problem.
- Upon completion of Math 47, a student should be able to 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.
- Upon completion of Math 47, a student should be able to solve a financial problem involving amortization.
- Upon completion of Math 47, a student should be able to translate a statement into symbolic logic notation.

#### **MATH50 - Intermediate Algebra for SLAM**

- Upon completion of Math 50, a student should be able to construct multiple representations of a function (numerical, graphical, or symbolic).
- Upon completion of Math 50, a student should be able to determine the domain of a function.
- Upon completion of Math 50, a student should be able to given a data set, use technology to graph a scatter plot of the data and find the line of best fit (linear regression).
- Upon completion of Math 50, a student should be able to solve and interpret an applied problem using a function.
- Upon completion of Math 50, a student should be able to write an exponential function model.

#### **MATH51 - Algebra Bridge**

- Upon completion of Math 51, a student should be able to interpret an applied problem using a function.
- Upon completion of Math 51, a student should be able to solve an applied problem using a function.

#### **MATH52A - Tech. Inter. Algebra- Auto A**

- Upon completion of Math 52A, a student should be able to solve a quadratic equation using the quadratic formula.
- Upon completion of Math 52A, a student should be able to solve an applied problem using a quadratic function.

#### **MATH52B - Tech. Inter. Algebra- Auto B**

- Upon completion of Math 52B, a student should be able to construct a linear model by using a linear regression.
- Upon completion of Math 52B, a student should be able to determine the volume of a cylinder.

#### **MATH53A - Tech.Inter.Algebra-Welding A**

- Upon completion of Math 53A, a student should be able to determine the lateral surface area of a geometric solid.
- Upon completion of Math 53A, a student should be able to solve an applied problem using triangle trigonometry.

#### **MATH53B - Tech.Inter.Algebra-Welding B**

- Upon completion of Math 53B, a student should be able to solve a quadratic equation using the quadratic formula.
- Upon completion of Math 53B, a student should be able to solve an applied problem using a quadratic function.

#### **MATH55 - Intermediate Algebra for BSTEM**

- Upon completion of Math 55, a student should be able to construct multiple representations of a function (numerical, graphical, or symbolic).
- Upon completion of Math 55, a student should be able to determine the domain of a function.
- Upon completion of Math 55, a student should be able to interpret the solution of an applied problem that uses a function.
- Upon completion of Math 55, a student should be able to solve an applied problem using a function.

**MATH55A - Inter. Algebra For STEM A**

- Upon completion of Math 55A, a student should be able to determine the domain of a function.

**MATH55B - Intermediate Algebra B**

- Upon completion of Math 55B, a student should be able to construct multiple representations of a function (numerical, graphical, or symbolic).
- Upon completion of Math 55B, a student should be able to interpret the solution of an applied problem that uses a function.
- Upon completion of Math 55B, a student should be able to solve an applied problem using a function.

**MATH55C - Concurrent Support Int.Algebra**

- Upon completion of Math 55C, a student should be able to use effective strategies to read mathematical text for understanding.
- Upon completion of Math 55C, a student should be able to develop study skills and life skills that will improve the student's likelihood of succeeding in their academic goals (such as time management, study skills, identifying his/her individual growth mindset, brain research on learning).
- Upon completion of Math 55C, a student should be able to organize and justify their mathematical thinking on Intermediate Algebra problems.
- Upon completion of Math 55C, a student should be able to use a problem-solving process to read mathematical problems with understanding, identify relevant information, define variables, execute relevant procedures and interpret results in the context of the problem.
- Upon completion of Math 55C, a student should be able to use learning strategies to identify and communicate in their own words the key concepts of Intermediate Algebra.

**MATH55E - Int. Algebra A Coreq. Support**

- Upon completion of Math 55E, a student should be able to communicate key concepts of Intermediate Algebra A using strategies learned in the course.
- Upon completion of Math 55E, a student should be able to develop study skills and life skills that will improve the student's likelihood of succeeding in their academic goals (such as time management, study skills, identifying their individual growth mindset, brain research on learning).
- Upon completion of Math 55E, a student should be able to justify their mathematical thinking on Intermediate Algebra A problems.
- Upon completion of Math 55E, a student should be able to use effective strategies to read mathematical texts for understanding.

**MATH55F - Inter.Algebra B Co-req Support**

- Upon completion of Math 55F, a student should be able to communicate key concepts of Intermediate Algebra B using strategies learned in the course.
- Upon completion of Math 55F, a student should be able to develop study skills and life skills that will improve the student's likelihood of succeeding in their academic goals (such as time management, study skills, identifying their individual growth mindset, brain research on learning).
- Upon completion of Math 55F, a student should be able to justify their mathematical thinking on Intermediate Algebra B problems.
- Upon completion of Math 55F, a student should be able to use effective strategies to read mathematical texts for understanding.

**MATH66 - Math Jam for Calculus**

- Upon completion of Math 66, a student should be able to 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.).
- Upon completion of Math 66, a student should be able to apply prerequisite mathematical topics at a higher level.
- Upon completion of Math 66, a student should be able to formulate short-term and long-term learning objectives based on their academic goal(s).
- Upon completion of Math 66, a student should be able to identify skills needed to become a more productive, successful, and independent learner.

**MATH66C - Support for Calculus I**

- Upon completion of Math 66C, a 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.
- Upon completion of Math 66C, a student should be able to identify challenging mathematics topics and be able to communicate in writing the correct strategies and processes for solving relevant mathematics problems.
- Upon completion of Math 66C, a student should be able to read mathematical writing with understanding and use this skill as preparation to solve relevant mathematics problems.
- Upon completion of Math 66C, a student should be able to utilize online and other technological resources effectively to enhance their understanding of a mathematics topic.

**MATH67 - Math Jam for Calculus II**

- Upon completion of Math 67, a student should be able to apply prerequisite mathematical topics at a higher level.
- Upon completion of Math 67, a student should be able to 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.).
- Upon completion of Math 67, a student should be able to formulate short-term and long-term learning objectives based on their academic goal(s).
- Upon completion of Math 67, a student should be able to identify skills needed to become a more productive, successful, and independent learner.

### **MATH67C - Concurrent Support Calculus II**

- Upon completion of Math 67C, a 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.
- Upon completion of Math 67C, a student should be able to identify challenging mathematics topics and be able to communicate in writing the correct strategies and processes for solving relevant mathematics problems.
- Upon completion of Math 67C, a student should be able to read mathematical writing with understanding and use this skill as preparation to solve relevant mathematics problems.
- Upon completion of Math 67C, a student should be able to utilize online and other technological resources effectively to enhance their understanding of a mathematics topic.

### **MATH68 - Math Jam for Calculus III**

- Upon completion of Math 68, a student should be able to apply prerequisite mathematical topics at a higher level.
- Upon completion of Math 68, a student should be able to 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.).
- Upon completion of Math 68, a student should be able to formulate short-term and long-term learning objectives based on their academic goal(s).
- Upon completion of Math 68, a student should be able to identify skills needed to become a more productive, successful, and independent learner.

### **MATH68C - Concurrent Support Calculus III**

- Upon completion of Math 68C, a 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.
- Upon completion of Math 68C, a student should be able to identify challenging mathematics topics and be able to communicate in writing the correct strategies and processes for solving relevant mathematics problems.
- Upon completion of Math 68C, a student should be able to read mathematical writing with understanding and use this skill as preparation to solve relevant mathematics problems.
- Upon completion of Math 68C, a student should be able to utilize online and other technological resources effectively to enhance their understanding of a mathematics topic.

### **MATH72A - Tech Elementary Algebra A**

- Upon completion of Math 72A, a student should be able to solve applied problems involving rates (e.g. parts per hour, threads per inch and revolutions per minute).

### **MATH72B - Tech. Elementary Algebra B**

- Upon completion of Math 72B, a student should be able to make a table of values for linear equations with two variables.
- Upon completion of Math 72B, a student should be able to solve linear equations with one variable.

### **MATH72C - Tech. Elementary Algebra C**

- Upon completion of Math 72C, a student should be able to perform unit conversions.
- Upon completion of Math 72C, a student should be able to solve applied problems using percentages.
- Upon completion of Math 72C, a student should be able to solve applied problems using systems of measurement.

### **MATH72D - Tech. Elementary Algebra D**

- Upon completion of Math 72D, a student should be able to interpret the slope of a line in applied problems.
- Upon completion of Math 72D, a student should be able to solve systems of two linear equations with two variables.
- Upon completion of Math 72D, a student should be able to write linear models to solve applied problems.

### **MATH100C - Concurrent Support SLAM Math**

- Upon completion of Math 100C, a 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.

- Upon completion of Math 100C, a student should be able to identify challenging mathematics topics and be able to communicate in writing the correct strategies and processes for solving relevant mathematics problems.
- Upon completion of Math 100C, a student should be able to read mathematical writing with understanding and use this skill as preparation to solve relevant mathematics problems.
- Upon completion of Math 100C, a student should be able to utilize online and other technological resources effectively to enhance their understanding of a mathematics topic.

### **MATH101C - Concurrent Support BSTEM Math**

- Upon completion of Math 101C, a 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.
- Upon completion of Math 101C, a student should be able to identify challenging mathematics topics and be able to communicate in writing the correct strategies and processes for solving relevant mathematics problems.
- Upon completion of Math 101C, a student should be able to read mathematical writing with understanding and use this skill as preparation to solve relevant mathematics problems.
- Upon completion of Math 101C, a student should be able to utilize online and other technological resources effectively to enhance their understanding of a mathematics topic.

### **MATH107 - Pre-Algebra**

- Upon completion of Math 107, a student should be able to interpret the results of an application in the context of the problem.
- Upon completion of Math 107, a student should be able to perform order of operations to simplify expressions involving signed integers.
- Upon completion of Math 107, a student should be able to set up and solve applications involving ratios, rates, or proportions.
- Upon completion of Math 107, a student should be able to solve an algebraic equation.
- Upon completion of Math 107, a student should be able to write a fraction in decimal form and as a percentage.

### **MATH107A - PRE-ALGEBRA A**

- Upon completion of Math 107A, a student should be able to perform order of operations to simplify expressions involving signed integers.

### **MATH107B - PRE-ALGEBRA B**

- Upon completion of Math 107B, a student should be able to interpret the results of an application in the context of the problem.
- Upon completion of Math 107B, a student should be able to set up and solve applications involving ratios, rates, or proportions.
- Upon completion of Math 107B, a student should be able to solve an algebraic equation.
- Upon completion of Math 107B, a student should be able to write a fraction in decimal form and as a percentage.

### **MATH107E - Pre-Algebra A Co. Support**

- Upon completion of Math 107E, a student should be able to communicate key concepts of Pre-Algebra A using strategies learned in the course.
- Upon completion of Math 107E, a student should be able to develop study skills and life skills that will improve the student's likelihood of succeeding in their academic goals (such as time management, study skills, identifying their individual growth mindset, brain research on learning).
- Upon completion of Math 107E, a student should be able to justify their mathematical thinking on Pre-Algebra A problems.
- Upon completion of Math 107E, a student should be able to use effective strategies to read mathematical texts for understanding.

### **MATH107F - Pre-Algebra B Co-Req Support**

- Upon completion of Math 107F, a student should be able to communicate key concepts of Pre-Algebra B using strategies learned in the course.
- Upon completion of Math 107F, a student should be able to develop study skills and life skills that will improve the student's likelihood of succeeding in their academic goals (such as time management, study skills, identifying their individual growth mindset, brain research on learning).
- Upon completion of Math 107F, a student should be able to justify their mathematical thinking on Pre-Algebra B problems.
- Upon completion of Math 107F, a student should be able to use effective strategies to read mathematical texts for understanding.

### **MATH110 - Elementary Algebra**

- Upon completion of Math 110, a student should be able to construct a linear model based on a given situation.
- Upon completion of Math 110, a student should be able to construct multiple representations of a linear equation (numerical, graphical, or symbolic)

- Upon completion of Math 110, a student should be able to interpret the slope in the context of a problem.
- Upon completion of Math 110, a student should be able to solve a polynomial equation using factoring techniques.

### MATH110A - Elementary Algebra A

- Upon completion of Math 110A, a student should be able to construct a linear model based on a given situation.
- Upon completion of Math 110A, a student should be able to construct multiple representations of a linear equation (numerical, graphical, or symbolic).
- Upon completion of Math 110A, a student should be able to interpret the slope in the context of a problem.

### MATH110B - Elementary Algebra B

- Upon completion of Math 110B, a student should be able to solve a polynomial equation using factoring techniques.

### MATH110C - Elemen. Algebra Coreq. Support

- Upon completion of Math 110C, a student should be able to use effective strategies to read mathematical text for understanding.
- Upon completion of Math 110C, a student should be able to develop study skills and life skills that will improve the student's likelihood of succeeding in their academic goals (such as time management, study skills, identifying his/her individual growth mindset, brain research on learning).
- Upon completion of Math 110C, a student should be able to organize and justify their mathematical thinking on Elementary Algebra problems.
- Upon completion of Math 110C, a student should be able to use a problem-solving process to read mathematical problems with understanding, identify relevant information, define variables, execute relevant procedures and interpret results in the context of the problem.
- Upon completion of Math 110C, a student should be able to use learning strategies to identify and communicate in their own words the key concepts of Elementary Algebra.

### MATH110E - Ele. Algebra A Coreq. Support

- Upon completion of Math 110E, a student should be able to communicate key concepts of Beginning Algebra A using strategies learned in the course.
- Upon completion of Math 110E, a student should be able to develop study skills and life skills that will improve the student's likelihood of succeeding in their academic goals (such as time management, study skills, identifying their individual growth mindset, brain research on learning).
- Upon completion of Math 110E, a student should be able to justify their mathematical thinking on Beginning Algebra A problems.
- Upon completion of Math 110E, a student should be able to use effective strategies to read mathematical texts for understanding.

### MATH110F - Elem. Algebra B Coreq Support

- Upon completion of Math 110F, a student should be able to communicate key concepts of Elementary Algebra B using strategies learned in the course.
- Upon completion of Math 110F, a student should be able to develop study skills and life skills that will improve the student's likelihood of succeeding in their academic goals (such as time management, study skills, identifying their individual growth mindset, brain research on learning).
- Upon completion of Math 110F, a student should be able to justify their mathematical thinking on Elementary Algebra B problems.

## Noncredit Horticulture

### CSLO

No CSLOs

## Noncredit Math

### CSLO

#### NMAT200C - Concurrent Support SLAM Math

- Upon completion of NMAT 200C, a 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.
- Upon completion of NMAT 200C, a student should be able to identify challenging mathematics topics and be able to communicate in writing the correct strategies and processes for solving relevant mathematics problems.
- Upon completion of NMAT 200C, a student should be able to read mathematical writing with understanding and use this skill as preparation to solve relevant mathematics problems.
- Upon completion of NMAT 200C, a student should be able to utilize online and other technological resources effectively to enhance their understanding of a mathematics topic.

### NMAT201C - Concurrent Support BSTEM Math

- Upon completion of NMAT 201C, a 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.
- Upon completion of NMAT 201C, a student should be able to identify challenging mathematics topics and be able to communicate in writing the correct strategies and processes for solving relevant mathematics problems.
- Upon completion of NMAT 201C, a student should be able to read mathematical writing with understanding and use this skill as preparation to solve relevant mathematics problems.
- Upon completion of NMAT 201C, a student should be able to utilize online and other technological resources effectively to enhance their understanding of a mathematics topic.

### NMAT202C - Concurrent Support for Math

- Upon completion of NMAT 202C, a student should be aware of how 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 on learning, personal time management, study skills, test taking and conquering math anxiety.

### NMAT207 - Pre-Algebra

- Upon completion of NMAT 207, a student should be able to interpret the results of an application in the context of the problem.
- Upon completion of NMAT 207, a student should be able to perform order of operations to simplify expressions involving signed integers.
- Upon completion of NMAT 207, a student should be able to set up and solve applications involving ratios, rates, or proportions.
- Upon completion of NMAT 207, a student should be able to solve an algebraic equation.
- Upon completion of NMAT 207, a student should be able to write a fraction in decimal form and as a percentage.

### NMAT210 - Elementary Algebra

- Upon completion of NMAT 210, a student should be able to construct a linear model based on a given situation.
- Upon completion of NMAT 210, a student should be able to construct multiple representations of a linear equation (numerical, graphical, or symbolic).
- Upon completion of NMAT 210, a student should be able to interpret slope in the context of a problem.
- Upon completion of NMAT 210, a student should be able to solve a polynomial equation using factoring techniques.

### NMAT250 - Intermediate Algebra for SLAM

- Upon completion of NMAT 250, a student should be able to construct multiple representations of a function (numerical, graphical, or symbolic).
- Upon completion of NMAT 250, a student should be able to determine the domain of a function.
- Upon completion of NMAT 250, a student should be able to solve and interpret an applied problem using a function.
- Upon completion of NMAT 250, a student should be able to write an exponential function model.
- Upon completion of NMAT 250, a student should be able to, given a data set, use technology to graph a scatter plot of the data and find the line of best fit (linear regression).

### NMAT255 - Intermediate Algebra for BSTEM

- Upon completion of NMAT 255, a student should be able to construct multiple representations of a function (numerical, graphical, or symbolic).
- Upon completion of NMAT 255, a student should be able to determine the domain of a function.
- Upon completion of NMAT 255, a student should be able to interpret the solution of an applied problem that uses a function.
- Upon completion of NMAT 255, a student should be able to solve an applied problem using a function.

### NMAT255C - Concurrent Support Int.Algebra

- Upon completion of NMAT 255C, a student should be able to organize and justify their mathematical thinking on Intermediate Algebra problems.
- Upon completion of NMAT 255C, a student should be able to use a problem-solving process to read mathematical problems with understanding, identify relevant information, define variables, execute relevant procedures and interpret results in the context of the problem.
- Upon completion of NMAT 255C, a student should be able to use effective strategies to read mathematical text for understanding.
- Upon completion of NMAT 255C, a student should be able to use learning strategies to identify and communicate in their own words the key concepts of Intermediate Algebra.
- Upon completion of NMAT 255C, as student should be able to develop study skills and life skills that will improve the student's likelihood of succeeding in their academic goals (such as time management, study skills, identifying his/her individual growth mindset, brain research on learning).

### NMAT260A - Math Jam Intro to Tutoring

- Upon completion of NMAT 260A, a student should be able to communicate effectively about theory of Growth Mindset, as an individual and as a tutor.
- Upon completion of NMAT 260A, a student should be able to navigate an online support course environment effectively.

### NMAT260B - Math Jam for Tutors

- Upon completion of NMAT 260B, a student should be able to apply mathematical concepts at a higher level.
- Upon completion of NMAT 260B, a student should be able to assist students comfortably in a lab setting.
- Upon completion of NMAT 260B, a student should be able to coach students in how to be an effective learner, using Growth Mindset theory and intelligent practices to be successful.
- Upon completion of NMAT 260B, a student should be able to model effective problem-solving, growth mindset and study skills.
- Upon completion of NMAT 260B, a student should be able to navigate an online support course environment effectively.
- Upon completion of NMAT 260B, a student should be able to provide guided math workshops to students on historically difficult topics with the support of instructors and fellow tutors.
- Upon completion of NMAT 260B, a student should be able to support students in math using best practices in teaching and learning pedagogy.

### NMAT261 - Math Jam for Prealgebra Prep

- Upon completion of NMAT 261, a student should be able to apply prerequisite mathematical topics at a higher level.
- Upon completion of NMAT 261, a student should be able to 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.).
- Upon completion of NMAT 261, a student should be able to formulate short-term and long-term learning objectives based on their academic goal(s).
- Upon completion of NMAT 261, a student should be able to identify skills needed to become a more productive, successful, and independent learner.

### NMAT262 - Math Jam for Elem.Algebra Prep

- Upon completion of NMAT 262, a student should be able to apply prerequisite mathematical topics at a higher level.
- Upon completion of NMAT 262, a student should be able to 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.).
- Upon completion of NMAT 262, a student should be able to formulate short-term and long-term learning objectives based on their academic goal(s).
- Upon completion of NMAT 262, a student should be able to identify skills needed to become a more productive, successful, and independent learner.

### NMAT263 - Math Jam Inter.Algebra Prep

- Upon completion of NMAT 263, a student should be able to apply prerequisite mathematical topics at a higher level.
- Upon completion of NMAT 263, a student should be able to 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.).
- Upon completion of NMAT 263, a student should be able to formulate short-term and long-term learning objectives based on their academic goal(s).
- Upon completion of NMAT 263, a student should be able to identify skills needed to become a more productive, successful, and independent learner.

### NMAT264 - Math Jam for SLAM Prep

- Upon completion of NMAT 264, a student should be able to apply prerequisite mathematical topics at a higher level.
- Upon completion of NMAT 264, a student should be able to 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.).
- Upon completion of NMAT 264, a student should be able to formulate short-term and long-term learning objectives based on their academic goal(s).
- Upon completion of NMAT 264, a student should be able to identify skills needed to become a more productive, successful, and independent learner.

### NMAT265 - Math Jam for BSTEM Prep

- Upon completion of NMAT 265, a student should be able to apply prerequisite mathematical topics at a higher level.
- Upon completion of NMAT 265, a student should be able to 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.).

- Upon completion of NMAT 265, a student should be able to formulate short-term and long-term learning objectives based on their academic goal(s).
- Upon completion of NMAT 265, a student should be able to identify skills needed to become a more productive, successful, and independent learner.

## Occupational Safety and Health

### CSLO

#### OSH50 - Intro Occupational Safety/Hlth

- Upon completion of OSH 50, the student will be able to articulate the historical development of occupational safety in the United States.
- Upon completion of OSH 50, the student will be able to discuss the various occupational safety and health disciplines and related roles and responsibilities.
- Upon completion of OSH 50, the student will be able to implement basic safety management principles, including hazard determination and control identification, development and implementation of effective training programs, accident investigation, and OSHA required record-keeping and reporting.
- Upon completion of OSH 50, the student will be able to write an effective health and safety program that complies with OSHA requirements and adequately protects workers.

#### OSH60 - Elements of Industrial Hygiene

- Upon completion of OSH 60, the student will be able to discuss OSHA regulations related to the control of occupational health hazards.
- Upon completion of OSH 60, the student will be able to identify occupational health hazards in the workplace and describe appropriate methods used to safeguard workers.
- Upon completion of OSH 60, the student will be able to recommend controls for industrial hygiene hazards that meet or exceed regulatory requirements.

#### OSH62 - Physical Hazards

- Upon completion of OSH 62, the student will be able to describe the skills, knowledge and abilities needed to successfully perform the roll of a safety specialist.
- Upon completion of OSH 62, the student will be able to discuss various methods available to the safety specialist to foster a safe and healthful work environment.
- Upon completion of OSH 62, the student will be able to explain the concept of acceptable risk levels as they relate to occupational safety and health requirements.
- Upon completion of OSH 62, the student will be able to recognize hazards commonly found in the workplace and recommend appropriate controls.

#### OSH67 - Comp Regulatory Requirements

- Upon completion of OSH 67, the student will be able to assess the applicability of current regulations to their organization and regulatory trends needing incorporation into their health and safety program.
- Upon completion of OSH 67, the student will be able to describe the responsibilities of the employer and the employee under the Occupation Safety and Health Act.
- Upon completion of OSH 67, the student will be able to discuss the structure of an OSHA inspection and the role of the safety specialist when an OSHA inspection occurs at their workplace.
- Upon completion of OSH 67, the student will be able to discuss key aspects of code regulations, including life safety, fire safety and building codes, the function of regulatory agencies, and their impact on the role of the safety specialist.
- Upon completion of OSH 67, the student will be able to measure safety performance by calculating key injury/illness statistics and comparing those results to industry averages.

## Physics

### CSLO

#### PHYS1A - General Physics I

- Upon completion of PHYS 1A, students should be able to analyze physical situations quantitatively using Newtonian mechanics and conservation laws.
- Upon completion of PHYS 1A, students should be able to design and conduct laboratory experiments, and analyze and interpret their data.
- Upon completion of PHYS 1A, students should be able to effectively communicate the methods, analysis, results, and conclusions of their own scientific experiments.

#### PHYS1B - General Physics II

- Upon completion of PHYS 1B, students should be able to analyze physical situations quantitatively using principles of hydrodynamics, thermodynamics, harmonic motion, wave motion, and optics.

- Upon completion of PHYS 1B, students should be able to design and conduct laboratory experiments, and analyze and interpret their data.
- Upon completion of PHYS 1B, students should be able to effectively communicate the methods, analysis, results, and conclusions of their own scientific experiments.

### PHYS1C - General Physics III

- Upon completion of PHYS 1C, students should be able to analyze physical situations quantitatively using principles of electricity and magnetism.
- Upon completion of PHYS 1C, students should be able to design and conduct laboratory experiments, and analyze and interpret their data.
- Upon completion of PHYS 1C, students should be able to effectively communicate the methods, analysis, results, and conclusions of their own scientific experiments.

### PHYS1D - General Physics IV

- Upon completion of PHYS 1D, students should be able to analyze physical situations quantitatively using principles of relativity, quantum mechanics, nuclear physics, and particle physics.
- Upon completion of PHYS 1D, students should be able to design and conduct laboratory experiments, and analyze and interpret their data.
- Upon completion of PHYS 1D, students should be able to effectively communicate the methods, analysis, results, and conclusions of their own scientific experiments.

### PHYS2A - Introduction to Physics I

- Upon completion of PHYS 2A, students should be able to analyze physical situations quantitatively using Newtonian mechanics, conservation laws, thermodynamics, hydrodynamics, and principles of harmonic and wave motion.
- Upon completion of PHYS 2A, students should be able to design and conduct laboratory experiments, and analyze and interpret their data.
- Upon completion of PHYS 2A, students should be able to effectively communicate the methods, analysis, results, and conclusions of their own scientific experiments.

### PHYS2B - Introduction to Physics II

- Upon completion of PHYS 2B, students should be able to analyze physical situations quantitatively using principles of electricity, magnetism, relativity, quantum mechanics, nuclear physics, and particle physics.
- Upon completion of PHYS 2B, students should be able to design and conduct laboratory experiments, and analyze and interpret their data.
- Upon completion of PHYS 2B, students should be able to effectively communicate the methods, analysis, results, and conclusions of their own scientific experiments.

### PHYS10 - Descriptive Physics

- Upon completion of PHYS 10, students should be able to describe the ways in which scientific principles have shaped the modern world and relate to daily life.
- Upon completion of PHYS 10, students should be able to explain fundamental physical principles in mechanics, electricity and magnetism, thermodynamics, optics, relativity, and modern physics.
- Upon completion of PHYS 10, students should be able to use quantitative reasoning to determine relationships between physical quantities.

### PHYS10L - Descriptive Physics Lab

- Upon completion of PHYS 10L, students should be able to compare experimental results to accepted values and evaluate the accuracy of their experiment.
- Upon completion of PHYS 10L, students should be able to effectively communicate the methods, analysis, results, and conclusions of their own scientific experiments.
- Upon completion of PHYS 10L, students should be able to quantitatively analyze their laboratory data.

## Radiation Safety

### CSLO

#### RADS40A - Radiation Safety Basics

- Upon completion of RADS 40A, the student will be able to assess hazards associated with the use of ionizing radiation.
- Upon completion of RADS 40A, the student will be able to determine biological effects and risks from radiation exposure.
- Upon completion of RADS 40A, the student will be able to identify the basic principles of atomic energy, radioactivity, and decay.

#### RADS40B - Emergency Response & Monitorin

- Upon completion of RADS 40B, the student will be able to evaluate data from radiation measurement equipment.
- Upon completion of RADS 40B, the student will be able to identify emergency response resources at the federal, state, international, and industry levels.

- Upon completion of RADS 40B, the student will be able to identify proper instruments for characterization of radiological conditions.

### **RADS40C - Safety Controls & Regulation**

- Upon completion of RADS 40C, the student will be able to describe requirements for safe transportation of radiological materials.
- Upon completion of RADS 40C, the student will be able to determine pathways for radiological transport in the environment and sampling strategies.
- Upon completion of RADS 40C, the student will be able to identify appropriate waste disposal processes.

## **Viticulture and Winery Tech**

### **CSLO**

#### **VWT1 - World Wines: New World**

- Upon completion of VWT 1, the student will be able to compare and contrast the geography, history and evolution of "old world" wines/"new world" wines.
- Upon completion of VWT 1, the student will be able to describe the basics of the sensory evaluation of wine, including olfactory, palate, objective and subjective approaches to tasting.
- Upon completion of VWT 1, the student will be able to list the predominate grapes and notable producers from the leading American wine-producing regions.

#### **VWT2 - World Wines: Old World**

- Upon completion of VWT 2, the student will be able to compare and contrast the geography, history and evolution of "old world" wines/"new world" wines.
- Upon completion of VWT 2, the student will be able to describe the basics of the sensory evaluation of wine, including olfactory, palate, objective and subjective approaches to tasting.
- Upon completion of VWT 2, the student will be able to list the predominate grapes and notable producers from the leading French wine-producing regions.

#### **VWT10 - Introduction to Viticulture**

- Upon completion of VWT 10, students should be able to describe the seasonal appearance and physiological functions of a grapevine from "pruned" dormancy to harvest.
- Upon completion of VWT 10, students should be able to identify the external, structural components of a modern trellis system trained grape vine.

#### **VWT12 - Landscape and Vineyard Soils**

- Upon completion of VWT 12, students should be able to accurately describe the "capillary action" of soil.
- Upon completion of VWT 12, students should be able to accurately describe what "field capacity" is and the different ways that it can be reached.

#### **VWT20 - Introduction to Enology**

- Upon completion of VWT 20, students should be able to explain the impact that oak aging can have on the organoleptic components of red and white wines.
- Upon completion of VWT 20, students should be able to explain the process of alcoholic fermentation.

#### **VWT23 - Fundamentals of Wine Science**

- Upon completion of VWT 23, the student will be able to describe how wine chemistry impacts a wine's color, aroma, flavor, balance, stability and quality.
- Upon completion of VWT 23, the student will be able to explain wine composition and list chemical families found in grapes and wine.
- Upon completion of VWT 23, the student will be able to identify important chemical compounds found in wine.
- Upon completion of VWT 23, the student will be able to outline the process of primary fermentation.

#### **VWT25 - Sensory Analysis of Wines**

- Upon completion of VWT 25, students should be able to accurately describe a wine's qualities both objectively and subjectively and understand when each of these assessments are appropriate to apply.
- Upon completion of VWT 25, students should be able to describe the organoleptic properties of both sound and flawed wines.

#### **VWT31 - Fall Vineyard Operations**

- Upon completion of VWT 31, students should be able to demonstrate the knowledge of assessing the ripeness of grapes using multiple tools including digital and analog refractometers, a hydrometer, and by using a learned organoleptic approach.
- Upon completion of VWT 31, students should be able to demonstrate the skills required to correctly prune a grapevine which has been trained to spur pruning including cordon and head trained vines.

- Upon completion of VWT 31, students should be able to identify the external, structural components of a modern trellis system trained grape vine.

### VWT32 - Spring Vineyard Operations

- Upon completion of VWT 32, students 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 covercropping.
- Upon completion of VWT 32, students should be able to demonstrate the skills required to improve grape quality by the seasonal spring time cultural practice of thinning buds and shoots.
- Upon completion of VWT 32, students should be able to identify the external, structural components of a modern trellis system trained grape vine.

### VWT33 - Summer Viticulture Operations

- Upon completion of VWT 33, students should be able to identify and explain the functions of the components that make up a working vineyard irrigation system including PVC piping and fittings, low voltage valves, filters, tubing, emitters and the system controller.
- Upon completion of VWT 33, students should be able to identify the external, structural components of a modern trellis system trained grape vine.

### VWT35 - Landscape/Vineyard Pest Mgt.

- Upon completion of VWT 35, students should be able to describe what a nematode is and what threats it poses to the vine (rootstock).

### VWT41 - Fall Winery Operations

- Upon completion of VWT 41, students should be able to demonstrate a working knowledge for "racking" wine.
- Upon completion of VWT 41, students should be able to demonstrate a working knowledge of the fermentation process.

### VWT42 - Winery Operations II

- Upon completion of VWT 42, students should be able to demonstrate a working knowledge of the fermentation process.
- Upon completion of VWT 42, students should be able to demonstrate proficiency at measuring and analyzing the required analysis parameters of must and wine.

### VWT45 - Food and Wine Pairing

- Upon completion of VWT 45, students should be able to accurately describe a wine's qualities.

### VWT47 - Wine Regions Wines of Cali

- Upon completion of VWT 47, students should be able to accurately describe a wine's qualities.

### VWT55 - Wine Service and Sales

- Upon completion of VWT 55, the student will be able to describe the models and concepts of the wine hospitality industry.
- Upon completion of VWT 55, the student will be able to design, organize, and care for a wine list.
- Upon completion of VWT 55, the student will be able to explain the roles of aperitifs, cordials, and other spirits in the dining experience.

## STUSVCS

### Psychology Counseling

#### CSLO

#### PCN3 - Theories of Counseling: Intro

- Upon completion of PCN 3, the student will be able to discuss the major therapeutic interventions in counseling and how they cause behavioral change.
- Upon completion of PCN 3, the student will be able to explain the legal and ethical considerations and their implications in counseling.
- Upon completion of PCN 3, the student will be able to explain the major theories, models, and recent trends in counseling theory.

#### PCN5 - Intro. Social Wk & Human Serv.

- Upon completion of PCN 5, the student will be able to analyze various case studies to determine the proper role of a social worker and the various factors influencing the situation.
- Upon completion of PCN 5, the student will be able to identify the legal, ethical, and professional practice responsibilities of working within social work and human service organizations.
- Upon completion of PCN 5, the student will be able to investigate social worker duties in dealing with a wide variety of difficult social issues such as discrimination, oppression, maltreatment, poverty and injustice.

#### PCN10 - Career and Educ. Planning

- Upon completion of PCN 10, the student will be able to define their top personal values that they want exemplified in their career choices and in life.
- Upon completion of PCN 10, the student will be able to demonstrate understanding of their personality strengths and synthesize this information towards their career decision making.
- Upon completion of PCN 10, the student will be able to set a short term career or educational goal with specific steps to reach it.

### **PCN13 - Multicultural Issues: America**

- Upon completion of PCN 13, the student will be able 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.
- Upon completion of PCN 13, the student will be able to explain and analyze the difference between stereotyping, prejudice, discrimination, and institutional racism.
- Upon completion of PCN 13, the student will be able to demonstrate an understanding of the identity development theories and apply the course concepts to case studies.

### **PCN15 - College Study Skills**

- Upon completion of PCN 15, the student will be able to describe how their organization and management of resources impact the achievement of stated goals.
- Upon completion of PCN 15, the student will be able to develop personal outcome for focal course.
- Upon completion of PCN 15, the student will be able to identify at least two areas of personal growth that need attention.
- Upon completion of PCN 15, the student will be able to identify the neurological basis for information processing, learning, attention and memory and their connection to study and learning strategies.
- Upon completion of PCN 15, the student will be able to identify their preferred learning styles and explain how they can use this information to be effective learners in classroom settings.
- Upon completion of PCN 15, the student will be able to identify time management techniques and explain how they can apply them in their own lives.

### **PCN18 - University Transfer Planning**

- Upon completion of PCN 18, the student will be able to demonstrate the ability to articulate an individualized educational pathway toward achieving his/her transfer goal(s).
- Upon completion of PCN 18, the student will be able to demonstrate the ability to develop a Transfer Action Plan for an individual transfer goal.
- Upon completion of PCN 18, the student will be able to demonstrate the ability to identify a top barrier for transfer, and locate a campus resource to help overcome that barrier.

### **PCN25 - Transition to College**

- Upon completion of PCN 25, the student will be able to complete the English/Math assessments to determine their placement for English and Math classes.
- Upon completion of PCN 25, the student will be able to demonstrate awareness of 5 campus resources.
- Upon completion of PCN 25, the student will be able to develop at least a one semester abbreviated student education plan (SEP).

### **PCN28 - Orientation for Intl. Students**

- Upon completion of PCN 28, the student will be able to discuss cultural differences and cultural adjustment strategies.
- Upon completion of PCN 28, the student will be able to explain the function of the U.S. and California educational systems.
- Upon completion of PCN 28, the student will be able to identify their educational and career goals.

### **PCN30 - Student Success:College Exp.**

- Upon completion of PCN 30, the student will be able to evaluate their personal level of self-awareness, responsibility, and motivation to integrate alternate strategies that support their college success.
- Upon completion of PCN 30, the student will be able to implement and develop long-range educational goals by identifying appropriate courses.
- Upon completion of PCN 30, the student will be able to locate and access resources and services on campus that promote and improve their learning.