

Moorpark College

Date: 08-27-2024

<b>A&amp;R, Counseling, EOPS, Student Health and Student Life &amp; Support</b>
<b>College</b>
<b>CLO</b> <b>COLM01 - College Strategies</b> <ul style="list-style-type: none"><li>• describe and practice skills needed for persistence in college and relate them to a variety of settings (both academic and non-academic).</li><li>• evaluate a variety of educational goals (obtaining certificates or degrees, transferring to a college or university, expanding career options, and/or establishing life-long learning patterns) and design a personal educational plan for achieving those goals.</li></ul> <b>COLM05 - Supervised Tutoring Across Cur</b> <ul style="list-style-type: none"><li>• assess their learning styles and needs and create a plan for improvement in course work.</li><li>• apply foundational skills and college strategies to succeed in their course work.</li></ul> <b>COLM902 - Tutoring Methods</b> <ul style="list-style-type: none"><li>• assess another student's learning strengths, styles, and needs, and then apply that information to the construction of an overall learning plan or an individual or group tutoring lesson plan.</li><li>• apply a variety of methods of tutoring in a practice (or actual) tutoring session.</li></ul>
<b>Counseling</b>
<b>CLO</b> <b>COUNM01 - Student Success</b> <ul style="list-style-type: none"><li>• Demonstrate the best study strategies and student success strategies as applied to their own preferred learning style.</li><li>• demonstrate an understanding of the culture of higher education and identify college resources and support services to assist students with their academic, financial, and personal needs.</li></ul> <b>COUNM01H - Honors: Student Success</b> <ul style="list-style-type: none"><li>• demonstrate the best study strategies and student success strategies as applied to their own preferred learning style.</li><li>• demonstrate an understanding of the culture of higher education and identify college resources and support services to assist students with their academic, financial, and personal needs.</li><li>• Identify transfer policies and admissions requirements to develop their own comprehensive educational plan based on their goal.</li></ul> <b>COUNM02 - Career and Life Planning</b> <ul style="list-style-type: none"><li>• Create a career action plan reflecting identified values, skills, and interests related to the emerging world of work</li></ul> <b>COUNM03 - Orientation/Moorpark College</b> <ul style="list-style-type: none"><li>• Identify appropriate college courses, services, and activities for individual needs.</li></ul> <b>COUNM05 - College Strategies</b> <ul style="list-style-type: none"><li>• describe and practice skills needed for persistence in college and relate them to a variety of settings (both academic and non-academic).</li><li>• evaluate a variety of educational goals (obtaining certificates or degrees, transferring to a college or university, expanding career options, and/or establishing life-long learning patterns) and design a personal educational plan for achieving those goals.</li></ul> <b>COUNM10 - Student Success: EOPS</b> <ul style="list-style-type: none"><li>• list eligibility criteria and requirements for the Extended Opportunity Program and Services (EOPS).</li><li>• develop an individualized comprehensive EOPS Student Educational Plan.</li><li>• successfully identify five strategies for college success.</li><li>• successfully identify student equity programs that provide access and resources toward higher education.</li></ul> <b>COUNM20 - Self-Paced Career Assessment</b> <ul style="list-style-type: none"><li>• Formulate short and long term goals and objectives culminating in an action plan</li></ul>

- identify and prioritize at least three career and/or college major options to research

### COUNM23 - PASS Academy I

- Identify their specific probationary or dismissal status.
- Define barriers to success; provide three strategies to mitigate them.
- Identify college resources and support services to assist students with their academic, financial, and personal needs.

## ACCESS, Athletics, Health, Kinesiology, Library/Learning Resources, Mathematics, Distance Education and Teaching & Learning

### Health Education

#### CLO

#### HEDM01 - Health and Society

- identify concepts of nutrition, fitness, and wellness as it pertains to a healthy lifestyle on society.
- identify areas of improvement in nutrition, fitness and wellness.
- explain a plan to improve ones overall health.

#### HEDM03 - Nutr/Fitness/Stress Mgmt.

- identify how nutrition, fitness, and stress management contribute to personal health.

#### HEDM05 - First Aid, CPR, & Emer Proced

- describe adult, child, and infant cardiopulmonary resuscitation and the use of an AED.
- identify the key components of CPR and blocked airway procedures
- describe the basic components of health and wellness.

#### HEDM07 - Personal Health

- explain, compare, and contrast the dimensions of health and wellness.
- identify personal risk factors and create a plan to improve in those areas.
- demonstrate improvement in one dimension of personal health.

#### HEDM20 - Introduction to Public Health

- ascertain major current local, national, and global health challenges in regards to public health.
- discuss community based strategies to facilitate the prevention and control of infectious disease.

#### HEDM80 - Internship in Health Education

- demonstrate contemporary and relevant work experience in the field.

### Intercollegiate Athletics

#### CLO

#### ICAM01A - Intercollegiate Baseball - Men

- demonstrate proper technique in all skills associated with baseball.
- organize a scouting report of upcoming opponents.

#### ICAM01B - Intercol/Baseball-Men Off Seas

- demonstrate proper technique in all skills associated with intercollegiate baseball.
- demonstrate improvement in skills identified as inefficient at the beginning of the off-season.
- improve muscular strength and cardiovascular endurance.

#### ICAM02A - Intercol. Basketball-Men/Fall

- demonstrate proper technique in all skills associated with intercollegiate basketball.
- organize a scouting report of upcoming opponents.

**ICAM02B - Intercol Basketball-Men/Spring**

- demonstrate proper technique in all skills associated with women's intercollegiate basketball.
- demonstrate improvement in skills identified as inefficient at the end of the intercollegiate women's basketball season.
- improve muscular strength and cardiovascular endurance.

**ICAM03A - Intercol Cross Country - Men**

- demonstrate proper technique in all skills associated with men's cross country.
- organize and explain strategic approaches to various cross country courses.

**ICAM03B - Inter/Cross Country-Men/Off Se**

- demonstrate proper technique in all skills associated with men's cross country.
- develop and apply cross country skills necessary to be successful at the intercollegiate level.

**ICAM04A - Intercollegiate Football - Men**

- demonstrate proper technique in all skills associated with intercollegiate football.
- organize a scouting report of upcoming opponents.

**ICAM04B - Intercol Football-Men/Off Seas**

- demonstrate proper technique in all skills associated with intercollegiate football.
- demonstrate improvement in skills identified as inefficient at the beginning of the off-season.
- improve muscular strength and cardiovascular endurance.

**ICAM07A - Intercollegiate Soccer - Men**

- demonstrate proper technique in all skills associated with intercollegiate men's soccer.
- organize a scouting report of upcoming opponents.

**ICAM07B - Intercol/Soccer-Men/Off Season**

- demonstrate proper technique in all skills associated with intercollegiate soccer.
- demonstrate improvement in skills identified as inefficient at the beginning of the off-season.
- improve muscular strength and cardiovascular endurance.

**ICAM10A - Intercol Track&Fld - Men**

- demonstrate proper technique in all skills associated with men's track or field events.
- demonstrate effective safety techniques and equipment use associated with intercollegiate track and field.

**ICAM10B - Intercol Track&Fld-M Off Seas**

- report improved positive character traits due to their participation in athletics.
- develop and apply track and field skills necessary to be successful at the intercollegiate level.

**ICAM11A - Intercol Volleyball - Men**

- demonstrate proper technique in all skills associated with volleyball.
- organize a scouting report of upcoming opponents strengths and weaknesses.

**ICAM11B - Inter/Volleyball-Men Off Seaso**

- demonstrate proper technique in all skills associated with intercollegiate volleyball.
- demonstrate improvement in skills identified as inefficient at the end of the intercollegiate competitive season and at the beginning of the off-season
- improve muscular strength and cardiovascular endurance.

**ICAM20A - Intercol/Basketball-Women/Fall**

- demonstrate proper technique in all skills associated with women's basketball.
- develop and apply team skills necessary to successfully compete at the intercollegiate level.

**ICAM20B - Inter/Basketball-Women Spring**

- demonstrate proper technique in all skills associated with intercollegiate women's basketball.

- demonstrate improvement in skills identified as inefficient at the end of the intercollegiate women's basketball season.
- improve muscular strength and cardiovascular endurance.

#### **ICAM21A - Intercoll. Cross Country-Women**

- demonstrate proper technique in all skills associated with intercollegiate women's cross country.
- organize and explain strategic approaches to various cross country courses.

#### **ICAM21B - Inter/Cross Country-Women/Off**

- demonstrate proper technique in all skills associated with women's cross country.
- develop and apply cross country skills necessary to be successful at the intercollegiate level.

#### **ICAM24A - Intercollegiate Soccer - Women**

- demonstrate proper technique in all skills associated with intercollegiate women's soccer.
- develop and apply skills necessary to compete in intercollegiate athletics.
- develop, analyze, and apply offensive and defensive tactics and strategies.

#### **ICAM24B - Inter/Soccer-Women Off Season**

- demonstrate proper technique in all skills associated with intercollegiate women's soccer.
- demonstrate improvement in skills identified as inefficient at the end of the intercollegiate competitive season and at the beginning of the off-season.
- improve muscular strength and cardiovascular endurance.

#### **ICAM25A - Intercollegiate Softball-Women**

- demonstrate proper technique in all skills associated with softball.
- organize a scouting report of upcoming opponents.

#### **ICAM25B - Inter/Softball-Women Off Seaso**

- demonstrate proper technique in all skills associated with intercollegiate softball.
- demonstrate improvement in skills identified as inefficient at the end of the intercollegiate competitive season and at the beginning of the off-season.
- improve muscular strength and cardiovascular endurance.

#### **ICAM28A - Intercoll Track & Fld - Women**

- demonstrate proper technique in all skills associated with women's track or field events.
- demonstrate effective safety techniques and equipment use associated with intercollegiate track and field.

#### **ICAM28B - Intercoll Track&Fld-W Off Seas**

- demonstrate improvement in skills identified as inefficient as the end of the intercollegiate track season.
- improve muscular strength and cardiovascular endurance.

#### **ICAM29A - Intercoll. Volleyball - Women**

- demonstrate proper technique in all skills associated with volleyball.
- organize a scouting report of upcoming opponents.

#### **ICAM29B - Inter/Volleyball-Women Off Sea**

- demonstrate proper technique in all skills associated with intercollegiate volleyball.
- demonstrate improvement in skills identified as inefficient at the end of the intercollegiate competitive season and at the beginning of the off-season.
- improve muscular strength and cardiovascular endurance.

#### **ICAM35A - Cond/Train for Athletic Compet**

- show an improvement in muscular strength and endurance.
- demonstrate safe and effective use of training equipment.

#### **ICAM35B - In-Season Cond for Athletics**

- report improved strength and conditioning as a result of their participation.

- demonstrate effective use of training equipment.

#### ICAM36 - Intercollegiate Women's Golf

- demonstrate proper technique in all shots associated with intercollegiate golf.
- organize and explain pre-round scouting.

#### ICAM38A - Intercollegiate Wrestling

- demonstrate proper technique in all skills associated with intercollegiate wrestling.
- organize a scouting report of upcoming opponents.

#### ICAM38B - Wrestling/Off-Season

- demonstrate proper technique in all skills associated with intercollegiate wrestling.
- demonstrate improvement in skills identified as inefficient at the end of the intercollegiate competitive season and at the beginning of the off-season.
- improve muscular strength and cardiovascular endurance.

#### ICAM40 - ICA Beach Volleyball-Women

- demonstrate proper technique in all skills associated with intercollegiate beach volleyball.
- organize a scouting report of upcoming opponents.

### Kinesiology

#### CLO

#### KINM01 - Introduction to Kinesiology

- assess personal characteristics, skills and knowledge related to career success in kinesiology, physical education and the fitness industry.

#### KINM13 - Prevent/Care-Athletic Injuries

- recognize risk factors and preventative measures for common sport related injuries.
- demonstrate the process of injury evaluation, management, and return to play.

#### KINM13L - Prev/Care Athletic Injury Lab

- assess athletic injuries by taking a history, patient observation, anatomical palpations, and special testing.
- create a plan including immediate care, a rehabilitation program, and return to play.

#### KINM16 - Personal Training Principles

- apply knowledge of exercise science to be certified trainer in finding employment.

#### KINM17 - Teaching Group Fitness

- apply exercise science knowledge to become a certified group fitness instructor in finding employment

#### KINM18 - Foundations of Fitness

- apply program design concepts to become a certified personal trainer and become employed.

#### KINM20 - Movement Analysis

- navigate an integrated assessment protocol in order to identify human movement dysfunction.
- create individualized corrective strategies.

#### KINM21 - Strength/Cond. for Performance

- navigate an integrated assessment protocol in order to identify decreased performance.
- create a comprehensive exercise protocol to help athletes achieve their performance goal.

#### KINM22 - Fitness for Youth, Women, Seniors

- identify the unique physiological differences among common special populations
- implement appropriate assessments in order to safely and accurately collect data.

#### KINM23 - Walking for Fitness

- create a walking fitness program that includes various types of terrain.
- apply pre and post cardiovascular fitness tests.

#### **KINM24 - Running/Fitness & Conditioning**

- demonstrate proper and effective running techniques.
- create a weekly running program to improve running distance

#### **KINM25 - Fitness Management**

- evaluate management styles and their effectiveness in operating a fitness business.
- identify best business practices to be successful in a fitness leadership role.

#### **KINM26 - Fitness Coaching/Behavior Mod.**

- develop necessary tools to be successful in implementing long term behavior change with clients.
- create and implement individualized action plans for adopting permanent behavior changes.

#### **KINM31 - Body Conditioning/Fitness**

- demonstrate improvement in fitness testing exercises.
- demonstrate appropriate use of exercise machines.

#### **KINM32 - Body Conditioning/Free Weights**

- show improvement in muscle strength by increasing weight in bench press and back squat exercise.
- demonstrate appropriate use of dumbbells and barbells in various exercises.

#### **KINM33 - Power Lifting/Free Weights**

- demonstrate proper lifting, breathing, and spotting techniques associated with a variety of resistance training exercises.
- demonstrate proficiency in power lifting exercises such military press, pull-ups, or reverse rows.

#### **KINM34 - Body Conditioning Boot Camp**

- demonstrate proper basic movement skills for cardiovascular and muscular conditioning.
- demonstrate improved fitness by increasing distance during the 12 minute run fitness test.

#### **KINM40 - Cardio Step and Sculpt**

- Students will understand the core components to Kinesiology.

#### **KINM42 - Aerobic Dance Fitness**

- demonstrate improvement in the 3 minute step test which assesses cardiorespiratory and aerobic endurance.
- explain the physical and mental benefits of increased activity.
- apply learned fundamental skills of rhythmic whole body dance.

#### **KINM43 - Cardio Kickboxing**

- demonstrate improvement in the 3 minute step test which assesses cardiorespiratory and aerobic endurance.
- demonstrate appropriate use of cardio equipment such as jump ropes and step platform.
- demonstrate proficiency in martial arts movements to improve fitness.

#### **KINM50 - Pilates Mat**

- apply the theoretical and scientific health benefits and practical applications of Pilates principles.
- demonstrate appropriate breathing techniques throughout an entire Pilates regimen.

#### **KINM51 - Core Stability and Stretch**

- demonstrate appropriate use of exercise machines.
- demonstrate improved flexibility in the sit and reach test.

#### **KINM52 - Core Fitness with Cardio**

- demonstrate basic movement skills that activate the five primary actions of the core.

#### **KINM53 - T'ai Chi Ch'uan**

- apply learned fundamental skills of Tai Chi.

#### KINM54 - Yoga

- apply learned fundamental skills of yoga.
- apply the theoretical and scientific health benefits and practical applications of Yoga principles.

#### KINM55 - Mind Body Fitness

- recognize the physical and mental benefits of increased activity.
- apply learned fundamental skills of mindful movement.

#### KINM71 - Golf

- demonstrate proficient mechanics of a golf swing.
- demonstrate proficient golf putting techniques.

#### KINM72 - Tennis

- demonstrate proficient mechanics of all tennis swings.
- explain the rules of playing a tennis match.

#### KINM80 - Internship in Kinesiology

- Students will understand the core components to Kinesiology.

#### KINM82 - Basketball

- demonstrate fundamentals of basketball skills and team play.
- explain basketball offensive and defensive strategies.
- demonstrate proficient basketball shooting mechanics.

#### KINM84 - Soccer

- demonstrate proficient soccer striking mechanics.
- explain how the components of fitness benefit from soccer.
- explain soccer offensive and defensive strategies.

#### KINM85 - Softball

- Students will understand the core components to Kinesiology.

#### KINM87 - Volleyball

- demonstrate proficiency in all volleyball mechanics.
- explain volleyball offensive and defensive strategies.

#### KINM92 - Hiking and Backpacking

- demonstrate safety procedures of hiking and backpacking.
- create a hiking and backpacking program to increase cardiorespiratory fitness.
- explain and apply the fundamental skills of hiking and backpacking.

#### KINM122 - Independent Study- Kinesiology

- specific learning outcome to be used will be determined by the supervising faculty member in consultation with the student.
- understand the core components to Kinesiology.

### Learning Skills

#### CLO

##### LSM02 - Basic Writing Skills

- write a coherent paragraph with a topic sentence, major details, minor details, transition words, and a closing sentence.
- engage in genuine collaboration with their classmates that fosters exploratory learning and values making mistakes as an opportunity for growth.

- demonstrate an understanding of the value cultural diversity has in our society by exploring and analyzing their own bias, through their writing

### LSM02L - Writing Skills Laboratory

- write a coherent paragraph with a topic sentence, major details, minor details, transition words and a closing sentence.
- engage in genuine collaboration with their classmates that fosters exploratory learning and values making mistakes as an opportunity for growth.
- demonstrate an understanding of the value cultural diversity has in our society by exploring and analyzing their own bias, through their writing.

### LSM03 - Personal Dev & Study Strategies

- assess, identify, practice, and reflect on their beliefs and behaviors related to the choices of successful students.
- recognize study skills challenges, implement appropriate strategies, and evaluate the effectiveness.

### LSM07A - Basic Math Skills I

- prepare for upcoming exams by creating a pre-test for the exam.
- monitor their grades throughout the course.

### LSM07B - Basic Math Skills II

- prepare for upcoming exams by creating a pre-test for the exam.
- monitor their grades throughout the course.
- understand the financial ramifications of borrowing money when Simple Interest is applied.

## Mathematics

### CLO

#### MATHM01 - Elementary Algebra

- Students completing this course will be able to solve a linear equation of the form  $ax+b=cx+d$ .
- Students completing this course will be able to factor a quadratic expression of the form  $x^2+bx+c$ .
- Students completing this course will be able to graph a line of the form  $ax+by=c$ .

#### MATHM03 - Intermediate Algebra

- analyze and solve various equations, inequalities, and systems of equations.
- graph and interpret linear and quadratic functions.

#### MATHM05 - College Algebra for STEM

- evaluate functions, equations, and inequalities related to higher level concepts in preparation for Calculus
- determine all real and complex roots of a polynomial of degree three or higher using synthetic division, rational root theorem, and remainder theorem.

#### MATHM06 - Trigonometry

- apply trigonometric identities and concepts to solve equations and application problems, and to prove identities.
- graph and interpret trigonometric functions and their transformations

#### MATHM07 - Precalculus and Trigonometry

- solve a quadratic trigonometric equation.
- simplify a difference quotient expression.
- graph a trigonometric function of the type  $y=A \sin Bx + C$ .

#### MATHM08 - Pathway to Statistics

- Compute the mean and standard deviation of sample data.
- Graph a scatter plot and compute the linear regression line for the data.
- Graphing an exponential function.
- Given two points on a line, find the point slope and slope intercepts forms of the graph.

- Calculate the z-score giving a mean and standard deviation and then find a probability.

### MATHM09 - Pre-Algebra

- divide decimals.
- add, subtract, multiply and divide fractions.
- simplify an expression adding and subtracting integers.

### MATHM10 - Math for Elem Teachers

- Use mathematical language and notation appropriately and effectively to communicate ideas verbally and in writing.
- Demonstrate understanding of standard and non-standard algorithmic procedures for performing operations on subsets of real numbers.
- Analyze and solve application problems using the fundamental properties of real number operations and problem solving techniques.

### MATHM11 - College Algebra for Lib Arts

- identify transformations of basic functions and graph the function on a Cartesian plane.
- determine all real and complex roots of a polynomial of degree three or higher using synthetic division, rational root theorem, and remainder theorem.

### MATHM12 - Math Reasoning - Liberal Arts

- identify logical arguments and common fallacies of various forms of propositions with the aid of sets and Venn Diagrams.
- determine how to budget and save by computing interest formulas and calculating projected investment values for loans, retirement plans, and stocks and bonds.
- recognize the conditions for which a statistical study is considered unbiased and credible.

### MATHM15 - Introductory Statistics

- construct a single-sample confidence interval, and draw an appropriate conclusion. This can be done by hand, with a graphing calculator, or with statistical software.
- construct a single-sample hypothesis test based on a given claim, and draw an appropriate conclusion. This can be done by hand, with a graphing calculator, or with statistical software.

### MATHM15H - Honors: Intro. Statistic

- construct a single-sample confidence interval, and draw an appropriate conclusion. This can be done by hand, with a graphing calculator, or with statistical software.
- construct a single-sample hypothesis test based on a given claim, and draw an appropriate conclusion. This can be done by hand, with a graphing calculator, or with statistical software.

### MATHM16A - Applied Calculus I

- use the concept of derivative to solve applied problems in cost, revenue, and profit.
- find a limit graphically.

### MATHM16B - Applied Calculus II

- use partial derivatives to determine the extrema of a function of two variables.
- use a double-integral to find the volume of a solid.

### MATHM19 - Math for Nursing Science

- perform a conversion of volume or weight measurement from one unit to another within the metric system and solve for the proper value in a ratio or proportion equation.
- estimate a measurement given certain conditions without the use of a calculator.

### MATHM21 - Discrete Mathematics

- Identify one-to-one (injective) and onto (surjective) functions.
- use mathematical induction to prove a number theoretic proposition.
- perform a traversal on a binary tree.

### MATHM25A - Calc/Analy Geometry I

- Use limits to determine the continuity of a function.
- Apply differentiation techniques on an optimization or related rates problem

### MATHM25AH - Honors: Calculus Analytic Geom

- Use limits to determine the continuity of a function.
- Apply differentiation techniques on an optimization or related rates problem.

### MATHM25B - Calc/Analy Geometry II

- Use series to approximate a function or an integral.
- apply integration techniques to calculate arc length, area, and volume.

### MATHM25BH - Honors: Calc/Analy Geometry II

- apply proper tests to determine convergence or divergence of series and sequences.
- apply integration techniques to calculate arc length, area, and volume.
- integrate varied forms of algebraic, trigonometric and transcendental functions.

### MATHM25C - Calc/Analy Geometry III

- Apply Green's Theorem, Stokes's, or Divergence Theorem in a vector field.
- Use vector-valued functions to describe curves and surfaces in space.

### MATHM31 - Intro To Linear Algebra

- find the matrix representation of a linear transformation given bases of the relevant vector spaces.
- find the null space of a matrix and represent it as the span of independent vectors.
- compute the inverse of an invertible matrix.

### MATHM35 - Appld Differen Equations

- find inverse LaPlace transformations.
- solve higher order differential equations using reduction of order, undetermined coefficients, or variation of parameters.
- solve first order differential equations utilizing the standard techniques for separable, exact, linear, homogeneous, or Bernoulli cases and find particular solutions given initial or boundary conditions.

### MATHM37DS - Prob & Stats - Data Science

- explain the components of a confusion matrix and commonly used model metrics such as precision and recall with a statistical programming language (e.g., R)
- explain what type of regression should be used to analyze the given data.
- perform the K-Nearest Neighbors method and interpret the results with a statistical programming language (e.g., R) on a given data set

### MATHM42DS - Math Machine Learning - DS

- explain how a matrix can be used to store data and be manipulated with a programming language (e.g., Python).
- compute a metric.
- explain the similarities and differences between the gradient descent, stochastic gradient descent and ADAM algorithms.

### MATHM122 - Independent Study: Mathematics

- analyze new data and conduct further research to assess the accuracy of their information and findings.
- apply the knowledge acquired to other aspects of mathematics.
- formulate statements designed to assess the applicability of their knowledge to other related topics.

### MATHM725A - Bridge to MATH M25A

- gain an understanding of mathematical topics in preparation for a first semester Calculus course by studying various Pre-Calculus topics through participating in the review session with the provided materials.

### MATHM725B - Bridge to MATH M25B

- gain an understanding of mathematical topics in preparation for a second semester Calculus course by studying various first semester Calculus topics through participating in the review session with the provided materials.

### MATHM901 - Bridge to MATH M01

- Students completing this course will be able to simplify an expression adding and subtracting integers.
- Students completing this course will be able to add, subtract, multiply and divide fractions.
- Students completing this course will be able to divide decimals.

### MATHM903 - Bridge to MATH M03

- Students completing this course will be able to solve a linear equation.
- Students completing this course will be able to factor a quadratic expression.
- Students completing this course will be able to graph a linear equation.

#### MATHM905 - Bridge to MATH M05, M07 or M11

- gain an understanding of mathematical topics in preparation for a college level algebra course by studying various intermediate algebra topics through participating in the review session with the provided materials.

#### MATHM905S - Support for College Algebra

- apply techniques for solving mathematical and application problems, such as finding the inverse of a one-to-one function.
- compare and contrast methods of solution to mathematical problems, such as solving quadratic equations by more than one method.
- describe and apply the algorithmic steps for obtaining the solution to a mathematical problem, such as solving logarithmic equations.

#### MATHM911S - Support - Col Alg for Lib Arts

- graph a line in the coordinate plane, and identify the slope and intercepts of the line.
- compare and contrast methods of solution to mathematical problems, such as solving quadratic equations by more than one method.
- simplify a radical expression and identify its domain in the real numbers.

#### MATHM915 - Bridge to Stat (Math M15)

- gain an understanding of mathematical topics in preparation for a college level statistics course by studying specially selected intermediate algebra topics through participating in the review session with the provided materials.

#### MATHM915S - Support for Statistics

- construct intervals, given appropriate information, and determine whether a given value lies within it.
- use and understand the summation ("Sigma") notation and compute a sum.
- find the vertical distance between a point and a line.
- approximate the area of a shaded region, given the total area under a relative frequency histogram.

### Arts, Communication Studies & Media

#### Art

#### CLO

##### ARTM20 - Two-Dimensional Design

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate two-dimensional designs.
- demonstrate a foundation level understanding of the elements and principles of two-dimensional design, using a variety of mediums which may include ink, graphite, colored pencil, acrylic paint, collage, and mixed media.
- identify the elements and principles of design and demonstrate their roles in relation to two-dimensional design vocabulary and works of art.

##### ARTM23 - Three-Dimensional Design

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate three-dimensional designs.
- demonstrate foundation level understanding of the elements and principles of three-dimensional design and their application in hands-on projects in varied media.
- identify the elements and principles of design and demonstrate their roles in relation to three-dimensional design vocabulary and works of art.

##### ARTM30 - Drawing and Composition I

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate drawings at a beginning level.
- demonstrate foundation level technical skills in the representation of objects in a variety of black and white media to include pictorial composition, depth perception, perspective and rendering.
- identify the elements and principles of design and demonstrate their roles in relation to beginning level drawing vocabulary and works of art.

##### ARTM31 - Drawing and Composition II

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate drawings at an intermediate level.
- demonstrate intermediate level technical skills in the exploration of illustrative drawing, analytic abstraction concepts and advanced problems in rendering through a variety of media.
- identify the elements and principles of design and demonstrate their roles in relation to intermediate level drawing vocabulary and works of art.

### ARTM32 - Beginning Life Drawing I

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate life drawings at a beginning level.
- demonstrate foundation level skills of proportion, structure, form and composition in drawing the human figure from live models in varied media.
- identify the elements and principles of design and demonstrate their roles in relation to beginning level life drawing vocabulary and works of art.

### ARTM33 - Beginning Life Drawing II

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate life drawings at an intermediate level.
- demonstrate intermediate level skills in structure, proportion, form, and composition in varied media including color media in drawing the human form from live models.
- identify the elements and principles of design and demonstrate their roles in relation to intermediate level life drawing vocabulary and works of art.

### ARTM34 - Advanced Life Drawing I

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate life drawings at an advanced level.
- demonstrate intermediate/advanced level skills in structure, proportion, form, and composition in varied media, as well as developing independent self-expressive approaches to drawing the human form.
- identify the elements and principles of design and demonstrate their roles in relation to advanced level life drawing vocabulary and works of art.

### ARTM35 - Advanced Life Drawing II

- present a portfolio that represents the culmination of their studies thus far in figure drawing.
- demonstrate an integration of advanced conceptual and technical skills in drawing the human form through the creation of a series of related drawings that reflect an individual approach.

### ARTM40 - Beginning Illustration

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate illustrations at a beginning level.
- demonstrate knowledge and ability to illustrate images to communicate ideas, stories or narratives.
- identify the elements and principles of design and demonstrate their roles in relation to beginning level illustration vocabulary and works of art.

### ARTM41 - Intermediate Illustration

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate illustrations at an intermediate level.
- create images and produce illustrations that address fantasy, advertising, editorial, children's book art and self-promotion in illustration using pen and ink, water-based, and marker techniques.
- identify the elements and principles of design and demonstrate their roles in relation to intermediate level illustration vocabulary and works of art.

### ARTM42 - Advanced Illustration

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate illustrations at an advanced level.
- create images and produces illustrations that addresses fantasy, advertising, editorial, children's book art and self-promotion in illustration using pen and ink, water based, marker techniques and digital techniques.
- identify the elements and principles of design and demonstrate their roles in relation to advanced level illustration vocabulary and works of art.

### ARTM43 - Beginning Painting I

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate paintings at a beginning level.
- create realistic acrylic paintings using basic techniques, skills and concepts, as well as create works of art that explore expressive and abstract applications of acrylic paint.

- identify the elements and principles of design and demonstrate their roles in relation to beginning level painting vocabulary and works of art.

### ARTM44 - Beginning Painting II

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate paintings at an intermediate level.
- demonstrate intermediate technical skills while exploring a variety of techniques, materials, and concepts in the creation of realistic and abstract paintings.
- identify the elements and principles of design and demonstrate their roles in relation to intermediate level painting vocabulary and works of art.

### ARTM45 - Advanced Painting I

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate paintings at an advanced level.
- demonstrate advanced technical skills while creating works of art that display personal self-expression through the interpretation of subject matter.
- identify the elements and principles of design and demonstrate their roles in relation to advanced level painting vocabulary and works of art.

### ARTM46 - Advanced Painting II

- present a portfolio that represents the culmination of their studies thus far in acrylic painting.
- demonstrate an integration of advanced conceptual and technical skills through the creation of a series of acrylic paintings that reflect an individual approach to painting.

### ARTM49 - Water Color I

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate watercolor paintings at a beginning level.
- create realistic watercolor paintings using basic techniques, skills and concepts, as well as create works of art that explore expressive and abstract applications of paint.
- identify the elements and principles of design and demonstrate their roles in relation to beginning level watercolor painting vocabulary and works of art.

### ARTM50 - Watercolor II

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate watercolor paintings at an intermediate level.
- create realistic watercolor paintings using intermediate techniques, skills and concepts, as well as create works of art that explore expressive and abstract applications of paint.
- identify the elements and principles of design and demonstrate their roles in relation to intermediate level watercolor painting vocabulary and works of art.

### ARTM70 - Beginning Ceramics I

- demonstrate knowledge and experience in clay forming and clay construction methods.
- identify the elements and principles of design and demonstrate their roles in relation to beginning level ceramics vocabulary and works of art.
- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate ceramics at a beginning level.

### ARTM71 - Beginning Ceramics II

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate ceramics at an intermediate level.
- demonstrate knowledge and experience in creating simple and complex forms (such as teapots, lidded forms, footed forms, altered forms, etc.), while utilizing more than one firing process (high fire, raku, pitfire, crystalline, etc.).
- identify the elements and principles of design and demonstrate their roles in relation to intermediate level ceramics vocabulary and works of art.

### ARTM72 - Ceramic Design I

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate ceramic designs at a beginning level.
- complete a multiple projects designed to expand technical skills and develop creative personal style, utilizing a variety of clay bodies, glazes and firing processes.
- identify the elements and principles of design and demonstrate their roles in relation to beginning level ceramic design vocabulary and works of art.

### ARTM73 - Ceramic Design II

- complete a series projects designed to expand technical skills and develop creative personal style, utilizing a variety of clay bodies, glazes and firing processes.
- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate ceramic designs at an intermediate level.
- identify the elements and principles of design and demonstrate their roles in relation to intermediate level ceramic design vocabulary and works of art.

#### ARTM74 - Glaze Design I

- demonstrate knowledge and experience in glaze formulation ingredients and glaze test methodology.
- identify the elements and principles of design and demonstrate their roles in relation to beginning level glaze design vocabulary and works of art.
- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate glaze designs at a beginning level.

#### ARTM75 - Glaze Design II

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate glaze designs at an intermediate level.
- design and develop glaze test methodology for a series of glaze experiments that reflect the students own interest and help in furthering the students creative direction.
- identify the elements and principles of design and demonstrate their roles in relation to intermediate level glaze design vocabulary and works of art.

#### ARTM77 - Beginning Sculpture I

- demonstrate skills in basic sculpture techniques as applied to varied three-dimensional media.
- identify the elements and principles of design and demonstrate their roles in relation to beginning level sculpture vocabulary and works of art.
- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate sculptures at a beginning level.

#### ARTM78 - Beginning Sculpture II

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate sculptures at an intermediate level.
- create multiple sculpture projects designed to expand technical skills and develop creative personal style.
- identify the elements and principles of design and demonstrate their roles in relation to intermediate level sculpture vocabulary and works of art.

#### ARTM79A - Figure Sculpture I

- demonstrate foundation level understanding of the basic principles, materials, terminology and techniques of sculpting the human figure from live models.
- identify the elements and principles of design and demonstrate their roles in relation to beginning level figure sculpture vocabulary and works of art.
- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate figure sculptures at a beginning level.

#### ARTM79B - Figure Sculpture II

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate figure sculptures at an intermediate level.
- demonstrate intermediate level understanding of the principles, materials, terminology and techniques of sculpting the human figure from live models while working towards a more personal and expressive interpretation of the human form.
- identify the elements and principles of design and demonstrate their roles in relation to intermediate level figure sculpture vocabulary and works of art.

#### ARTM79C - Figure Sculpture III

- demonstrate intermediate to advanced level understanding of the principles, materials, terminology and techniques of sculpting the human figure from live models while working towards a more personal and expressive interpretation of the human form.
- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate figure sculptures at an advanced level.
- identify the elements and principles of design and demonstrate their roles in relation to advanced level figure sculpture vocabulary and works of art.

#### ARTM79D - Figure Sculpture IV

- demonstrate advanced level understanding of the principles, materials, terminology and techniques of sculpting the human figure from live models while working towards a more personal and expressive interpretation of the human form.

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate works of art.
- derive meaning from a work of art through an understanding of the social, historical and theoretical contexts behind major concepts, themes, aesthetic concerns and processes, as well as demonstrate an understanding of the social role or influence of the artistic discipline.

### ARTM80 - Internship in Art

- Develop on-the-job learning objectives that demonstrate new and expanded learning at the work site that directly relate to the student's educational or occupational goal (major or career).
- Demonstrate successful workplace human dynamics, which may include: working as part of a team, following implicit and explicit instructions including company policies and procedures, and practicing work ethics.
- Demonstrate appropriate work skills such as communication, problem solving, decision making, teamwork, self-management, initiative, and/or technical skills that are gained as a result of new and expanded learning at the worksite.
- Organize and maintain occupational work experience records, including time sheets, a consultation record, and learning objective proposals, evaluation, and documentation.
- Appraise and evaluate the occupational work experience situation as it applies to the student's educational or occupational goals (major or career) in written or verbal format in the form of a paper, project, or presentation.

### ARTM90 - Beginning Printmaking I

- demonstrate the ability to create and produce intaglio print editions using multiple mediums.
- identify the elements and principles of design and demonstrate their roles in relation to beginning printmaking vocabulary and works of art.
- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate prints at a beginning level.

### ARTM91 - Beginning Printmaking II

- demonstrate an ability to create and produce an intaglio print edition using various grounds.
- identify the elements and principles of design and demonstrate their roles in relation to intermediate printmaking vocabulary and works of art.
- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate prints at an intermediate level.

### ARTM92 - Advanced Printmaking I

- demonstrate the ability to fabricate a collograph plate and print an edition of multiple images.
- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate prints at an advanced level.
- identify the elements and principles of design and demonstrate their roles in relation to advanced printmaking vocabulary and works of art.

### ARTM93 - Advanced Printmaking II

- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate prints at a proficient level.
- demonstrate the ability to conceptualize and produce large format print in intaglio or relief.
- identify the elements and principles of design and demonstrate their roles in relation to proficient printmaking vocabulary and works of art.

### ARTM110 - Gallery Practice/Portfolio

- present themselves professionally, in person and online, with written portfolio materials and high quality images of their artwork.
- demonstrate creative and critical thinking, with an awareness and sensitivity to individual and cultural differences, as they research, produce, analyze and evaluate works of art for display in their gallery exhibitions.
- curate, design, prepare artwork, install/light, and promote exhibitions of their own work and the work of other artists in a gallery space.

### ARTM122 - Independent Study - Art

- analyze new information, practices or research in the field of art and utilize those findings in further research or creative projects.
- apply the knowledge acquired to other areas of the art discipline.
- formulate statements designed to assess the applicability of their knowledge to other related topics.

### ARTM123 - Independent Study II - Art

- demonstrate a deeper understanding of the art discipline as specifically determined in the student-developed learning objectives in consultation with the instructor.

**Art History****CLO****ARTHM80 - Internship in Art History**

- Develop on-the-job learning objectives that demonstrate new and expanded learning at the work site that directly relate to the student's educational or occupational goal (major or career).
- Demonstrate successful workplace human dynamics, which may include: working as part of a team, following implicit and explicit instructions including company policies and procedures, and practicing work ethics.
- Demonstrate appropriate work skills such as communication, problem solving, decision making, teamwork, self-management, initiative, and/or technical skills that are gained as a result of new and expanded learning at the worksite.
- Organize and maintain occupational work experience records, including time sheets, a consultation record, and learning objective proposals, evaluation, and documentation.
- Appraise and evaluate the occupational work experience situation as it applies to the student's educational or occupational goals (major or career) in written or verbal format in the form of a paper, project, or presentation.

**ARTHM100 - Understanding Art**

- explain the elements of art and principles of design as they are applied historically and culturally across visual art media and architecture.
- analyze and derive meaning from works of art, as they identify key stylistic and thematic features, formal content, and historical context, with an awareness and sensitivity to individual and cultural aesthetic differences,
- identify with proper course vocabulary different materials, techniques, and functions of art as reflecting human ideals, values and beliefs.

**ARTHM100H - Honors: Understanding Art**

- explain the elements of art and principles of design as they are applied historically and culturally across visual art media and architecture.
- analyze and derive meaning from works of art, as they identify key stylistic and thematic features, formal content, and historical context, with an awareness and sensitivity to individual and cultural aesthetic differences.
- identify with proper course vocabulary different materials, techniques, and functions of art as reflecting human ideals, values and beliefs.
- research an artist of your choice and analyze her/his artwork, using the aforementioned skills.

**ARTHM110 - Art Hist: Prehist to Gothic**

- identify the evolution of key stylistic features in works of art and architecture created between Prehistory and Gothic times.
- analyze and evaluate thematic, narrative and iconographic content, as well as cultural context to derive meaning from works of art and architecture produced between Prehistory and Gothic times, with awareness and sensitivity to individual and cultural aesthetic differences .
- explain how the different periods covered in this course reflect their ideologies through their major works, aesthetic characteristics, techniques used, patronage, regional differences and various influences.

**ARTHM120 - Hist of Art: Renaissance - Mod**

- identify the evolution of key stylistic features in works of art and architecture created between the Renaissance and Early Modern times.
- analyze and evaluate thematic, narrative and iconographic content, as well as cultural context to derive meaning from works of art and architecture produced between the Renaissance and Early Modern times, with awareness and sensitivity to individual and cultural aesthetic differences .
- explain how the different periods covered in this course reflect their ideologies through their major works, aesthetic characteristics, techniques used, patronage, regional differences and various influences.

**ARTHM122 - Independnt Study - Art History**

- analyze new information, practices or research in the field of art and utilize those findings in further research or creative projects.

**ARTHM130 - History of Art: Asian**

- identify the evolution of key stylistic features in works of art and architecture created in Asia.
- analyze and evaluate thematic, narrative and iconographic content, as well as cultural context to derive meaning from works of art and architecture produced in the Asian areas and cultures studies within this course, with awareness and sensitivity to individual and cultural aesthetic differences .
- explain how the different periods covered in this course reflect their ideologies through their major works, aesthetic characteristics, techniques used, patronage, regional differences and various influences.

**ARTHM150 - Hist of Art: Mod to Contemp**

- identify the evolution of key stylistic features in Modern and Contemporary works of art and architecture.
- analyze and evaluate thematic, narrative and iconographic content, as well as cultural context to derive meaning from Modern and Contemporary works of art and architecture, with awareness and sensitivity to individual and cultural aesthetic differences .

- explain how the different periods covered in this course reflect their ideologies through their major works, aesthetic characteristics, techniques used, patronage, regional differences and various influences.

## Commercial Photography

### CLO

#### PHTCM31A - Studio Lighting I

- produce portraits of professional quality in a studio setting using artificial light.
- produce portraits of professional quality on location blending artificial and natural light sources.
- demonstrate proficiency at controlling contrast using artificial light.

#### PHTCM31B - Studio Lighting II

- produce product or still life photographs of professional quality in a studio setting using artificial light.
- demonstrate the different types of reflections used in commercial product or still life photographs of professional quality.
- demonstrate proficiency at photographing subjects that contain glass and/or metal in product or still life photography.

#### PHTCM33 - Image Editing

- demonstrate knowledge of tonal and color adjustment techniques.
- demonstrate non-destructive image editing.
- demonstrate knowledge of various selection and masking techniques.

#### PHTCM35 - Intro to Photojournalism

- produce documentary photographs that will match contemporary guidelines.
- analyze the legal and ethical concerns of documentary photography.
- demonstrate the difference between news and editorial photography.

#### PHTCM37 - Professional Practices Photo

- Identify key elements and industry standards for photography related contractual arrangements.
- Research and assess recent rulings in intellectual property and/or copyright law.
- Prepare marketing and promotional materials related to a student proposed photography endeavor.

#### PHTCM50 - Lab Practice in Photography I

- demonstrate improved fluency and fluidity with photographic processes in the studio, darkroom and digital lab.

#### PHTCM51 - Lab Practice in Photography II

- show improved competency with photographic processes in the studio, darkroom and digital lab from the previous Lab Practice course.

#### PHTCM52 - Lab Practice in Photo III

- demonstrate proficiency with photographic processes in the studio, darkroom and digital lab.

#### PHTCM53 - Lab Practice in Photography IV

- demonstrate mastery with photographic processes in the studio, darkroom and digital lab.

## Communication Studies

### CLO

#### COMMM01 - Public Speaking

- demonstrate the ability to write an appropriately organized speech that is based on sound rhetorical theory and effectively uses credible evidence to support claims made.
- Demonstrate techniques of effective speech delivery.
- demonstrate critical thinking, listening, and feedback skills when evaluating rhetorical texts and speeches of peers.

#### COMMM01H - Honors: Public Speaking

- demonstrate the ability to write an appropriately organized speech that is based on sound rhetorical theory and effectively uses credible evidence to support claims made.
- Demonstrate techniques of effective speech delivery.

- demonstrate critical thinking, listening, and feedback skills when evaluating rhetorical texts and speeches of peers.
- Describe the key concepts from a primary text and use them to analyze a real-world speech situation.

### COMMM02 - Introduction to Persuasion

- Demonstrate the ability to write and deliver an effective persuasive speech.
- Incorporate effective strategies of situational and audience adaptation into a persuasive speech.
- Analyze and evaluate the content and context of public discourse.

### COMMM04 - Interpersonal Comm

- Identify and explain the importance of interpersonal relationships in influencing people's beliefs, attitudes, values, and behaviors.
- Identify and explain how culture, gender, media and other factors influence our interpersonal communication skills.
- Demonstrate an understanding of effective communication skills in a variety of contexts including conflict management.

### COMMM05 - Oral Interp/Literature

- Demonstrate an understanding of the various genres of literature through the creation of a program performance, with an original introduction.
- Demonstrate appropriate performance techniques for the different genres of literature in a program performance.

### COMMM06 - Small Group Communication

- Demonstrate ability to manage conflict and tension as well as engage in effective group decision making.
- Apply and adapt group communication skills to facilitate productive discourse and content creation.

### COMMM07 - Argumentation & Debate

- Identify propositions and formulate cases containing the necessary stock issues with evidence.
- Evaluate arguments and construct counter arguments.

### COMMM10A - Forensics I

- Develop in-depth arguments on a variety of current political, economic, legal, and social problems in public performance.
- Revise their public discourse to a variety of situational considerations.

### COMMM10B - Forensics II

- Develop in-depth arguments on a variety of current political, economic, legal, and social problems in public performance.
- Integrate feedback from outside critics into public discourse.

### COMMM10C - Forensics III

- Develop and Revise in-depth arguments on a variety of current political, economic, legal, and social problems in public performance.
- Effectively evaluate competitive speech or debate events.

### COMMM10D - Forensics IV

- Develop and Revise in-depth arguments on a variety of current political, economic, legal, and social problems in public performance.
- Evaluate competitive speech or debate events and provide effective feedback.

### COMMM12 - Intercultural Communications

- Demonstrate the ability to recognize barriers to intercultural communication: ethnocentrism, stereotypes and prejudice, language, non-verbal misinterpretations, and assuming similarities instead of differences.
- Demonstrates the ability to identify dominant cultural values in the US and globally through Hofstede's dimensions of culture, value orientations and cultural contexts.

### COMMM13 - Gender Communication

- Demonstrates the ability to explain and evaluate the role, influence, effects, and significance of gender on our everyday communication interactions.
- Demonstrates the ability apply a variety of theoretical perspectives to multiple communication contexts as a means of effectively evaluating gender phenomena, gender socialization, gendered interactions, and gender stereotypes.

### COMMM16 - Readers' Theatre

- demonstrate an understanding of the various genres of literature through the creation of a group program performance.
- demonstrate appropriate performance techniques for the different genres of literature in a group performance

- demonstrate appropriate staging choices for a group performance.

### COMMM17 - Computer-Mediated Comm

- Compare the strengths and weakness in forming and maintaining relationships and identity across various online applications.
- Apply theoretical concepts to evaluate online interactions for successes, failures, and differences from face to face communication.

### COMMM18 - Intro to Organizational Comm

- Identify unique organizational communication techniques that contribute to employee effectiveness.
- Identify the role of culture, diversity, and appropriate communication processes, in a diverse workforce.
- Demonstrate the ability to resolve complex issues that are disruptive to personal, team, and organizational functioning through the use of conflict management skills.

### COMMM19 - Communication and Leadership

- Identify and evaluate the effectiveness of their own leadership style among various leadership models.
- Identify the necessary elements to create an inclusive, productive, and innovative workplace culture.

### COMMM20 - Business & Professional Speech

- Demonstrate the ability to write and deliver an appropriately organized speech for a professional setting that effectively uses credible evidence to support claims made.
- Demonstrate effective interviewing skills.
- Demonstrate effective meeting administration skills.

### COMMM23 - Intro to Health Communication

- Demonstrate the ability to identify unique situational, social, and environmental factors that contribute to health.
- Demonstrate the ability to identify which health campaign strategies are best suited to obtain specific health outcomes and behaviors.

### COMMM25 - Intro. to Rhetorical Criticism

- Describe the key elements of a rhetorical artifact and analyze the artifact using an appropriate critical perspective.
- Evaluate the effectiveness of the rhetorical strategies.

### COMMM26 - Rhetoric of Popular Culture

- Analyze explicit and implicit messages in artifacts of popular culture for their impact on self-concept and social structures.
- Evaluate the influence of popular culture on mainstream acceptance or exclusion of subcultures and identity groups.

### COMMM80 - Internship in Speech

- demonstrate contemporary and relevant work experience in the communication field

## Dance

### CLO

#### DANCM01 - Dance Appreciation

- demonstrate a greater appreciation of dance as a theatrical art and cultural practice.
- analyze the elements and methods of dance.
- apply critical thinking to the viewing, analysis, and interpretation of dance works.

#### DANCM01H - Honors: Dance Appreciation

- demonstrate a greater appreciation of dance as a theatrical art and cultural practice.
- analyze the elements and methods of dance.
- apply critical thinking to the viewing, analysis, and interpretation of dance works.

#### DANCM03 - Dance History

- demonstrate an understanding of the historical and contemporary nomenclature of the wide-ranging activity of dance as it has existed throughout the world and its historical contexts.
- apply verbal and written communication skills in their dance history assignments.
- apply critical thinking skills to the study of dance history.

**DANCM09A - Introduction to Dance: Ballet**

- define and describe the aesthetic characteristics of ballet as an art form.
- perform foundational ballet steps (Including but not limited to barre work plié, tendu, degage, fondu, developpe, etc.)
- identify and explain essential ballet barre terminology corresponding to ballet steps and elements of performance technique
- demonstrate proficiency in musicality, responding kinesthetically to beat, tempo, and accents in music.

**DANCM10A - Ballet I-Fundamentals**

- identify and explain essential ballet center work terminology corresponding to ballet steps and elements of performance technique
- obtain the overall fitness level and technique to meet the needs of a foundation level ballet class or performance.
- recall and discuss ballet history from the Renaissance through the Romantic Ballet.
- identify and perform steps with duple and triple subdivision.

**DANCM10B - Ballet II - Beginning**

- recall and discuss Romantic through Classical ballet history.
- identify and explain the derivation of ballet terminology corresponding to a demonstrated technique.
- obtain the overall fitness level and technique to meet the needs of a beginning level ballet class or performance.
- identify and perform in 3/4, 4/4, and 6,8 time.

**DANCM10C - Ballet III - Intermediate**

- identify and explain the derivation of ballet terminology corresponding to a demonstrated technique.
- recall and discuss the history of modern and neo-classical ballet: Ballet Russe, Neoclassical, Tudor, Loring, and Balanchine.
- obtain the overall fitness level and technique to meet the needs of an intermediate level ballet class or performance.
- demonstrate an understanding of many musical forms and their related applications in ballet choreography.

**DANCM10D - Ballet IV - Advanced**

- demonstrate an understanding of Contemporary ballet works and choreographers.
- obtain the overall fitness level and technique to meet the needs of an advanced level ballet class or performance.
- identify and explain the derivation of ballet terminology corresponding to a demonstrated technique.
- demonstrate musical and technical fluency in all the sections of a ballet class structure and in performance.

**DANCM11A - Jazz Dance I - Fundamentals**

- identify and discuss the major European and African influences in American Jazz Dance as a theatrical art form and cultural practice.
- demonstrate the overall fitness level and technique to meet the needs of a foundation level jazz class or performance.
- analyze jazz dance movement according to essential movement principles and cultural contexts.

**DANCM11B - Jazz Dance II - Beginning**

- discuss the major European and African influences in American Jazz Dance as a theatrical art form and cultural practice.
- demonstrate the overall fitness level and technique to meet the needs of a beginning level jazz class or performance.
- analyze jazz dance movement according to essential movement principles and cultural contexts.

**DANCM11C - Jazz Dance III - Intermediate**

- explain and categorize Europeanist and Africanist characteristics in American Jazz Dance.
- demonstrate the overall fitness and technique to meet the needs of an intermediate level jazz class or performance, including spatial and rhythmic accuracy, fluency in performance and versatile jazz styling (in more than one stylistic trend in the genre: Lyrical, Blues, Classical, Swing, Musical Theater, Funk, Latin or Contemporary).
- analyze jazz dance movement according to essential movement principles and cultural contexts.

**DANCM11D - Jazz Dance IV - Advanced**

- explain and categorize Europeanist and Africanist characteristics in American Jazz Dance.
- demonstrate the overall fitness and technique of an advanced level jazz dance class or performance, including spatial and rhythmic accuracy, fluency in performance and versatile jazz styling (in more than one stylistic trend in the genre: Lyrical, Blues, Classical, Swing, Musical Theater, Funk, Latin or Contemporary).

- analyze jazz dance movement according to essential movement principles and cultural contexts.

#### **DANCM12A - Modern Dance I - Fundamentals**

- obtain the overall fitness level and technique to meet the needs of a foundation level modern dance class or performance.
- describe and demonstrate aesthetic components and cultural values of modern dance.
- demonstrate knowledge in areas of history, theory and philosophy of modern dance

#### **DANCM12B - Modern Dance II - Beginning**

- demonstrate knowledge in areas of history, theory and philosophy of modern dance
- describe and demonstrate aesthetic components and cultural values of modern dance.
- obtain the overall fitness level and technique to meet the needs of a beginning level modern dance class or performance.

#### **DANCM12C - Modern Dance III -Intermediate**

- demonstrate knowledge in areas of history, theory and philosophy of modern dance.
- describe and demonstrate aesthetic components and cultural values of modern dance.
- obtain the overall fitness level and technique to meet the needs of an intermediate level modern dance class or performance.

#### **DANCM12D - Modern Dance IV - Advanced**

- demonstrate knowledge in areas of history, theory and philosophy of modern dance
- describe and demonstrate aesthetic components and cultural values of modern dance.
- obtain the overall fitness level and technique to meet the needs of an advanced level modern dance class or performance.

#### **DANCM13A - Tap I - Fundamentals**

- express an appreciation of dance as an art form and tap dance within the world of dance.
- explain musicality and its applications in dance performance, including how music is rhythmically structured and affects a dance performance.
- perform a fundamental-level tap combination with sufficient overall fitness including strength, stretch, and endurance.
- identify the rudiments of tap dance.

#### **DANCM13B - Tap II - Beginning**

- demonstrate the overall fitness level including strength, agility, and endurance to perform a beginning level tap dance combination.
- recreate rhythms with an awareness of duple and triple subdivision of the beat.
- analyze dance as an art form and the role of tap dance within the world of dance.
- identify and name or perform beginning level tap steps and their components (rudiments).

#### **DANCM13C - Tap III - Intermediate**

- define syncopation within tap dance musicality.
- perform intermediate tap dance choreography with the requisite fitness level for an intermediate level dancer.
- participate in improvisational tap dance settings.
- express an appreciation of dance as an art form and tap dance within the world of dance.

#### **DANCM13D - Tap IV - Advanced**

- perform advanced/intermediate tap dance choreography with the requisite overall fitness level including strength, stretch and endurance.
- keep time while dancing without speeding up or slowing down.
- participate in a variety of improvisational tap dance settings.
- demonstrate personal style as a tap dancer utilizing fusion forms and various styles of tap.

#### **DANCM15A - Choreography I: Beginning**

- model exploratory movement sessions with the aim of generating a variety of movement ideas.
- demonstrate reasoning, problem solving, and critical thinking strategies in their pursuits and application of knowledge related to the choreographic process.

#### **DANCM15B - Choreography II: Intermediate**

- distinguish between dance as entertainment and dance as personal expression and articulate areas of overlap between them.
- model dance making (choreographing) as a creative praxis.
- address personal areas of growth as identified by self and the instructor for the course of the semester.

#### **DANCM16A - Hip Hop 1 - Fundamentals**

- demonstrate the fitness to perform fundamental hip hop movement combinations.
- identify and discuss the history, style, and philosophy of hip hop as an urban cultural practice.
- discuss and measure the influences hip hop dance has had on American culture: fashion, art, and dance/choreography.

#### **DANCM16B - Hip Hop II - Beginning**

- analyze and appraise hip hop dance performances as an art form as experienced through attendance of live concerts, films, and/or videos.
- demonstrate improvement in strength, coordination and rhythmic ability to execute the technical skills for performance.
- differentiate the following urban dance techniques: hip hop, pop lock, hip hop funk, break dancing, krumping and freestyle.

#### **DANCM16C - Hip Hop III - Intermediate**

- demonstrate an understanding of improvised movement within a hip hop context that takes into consideration the music style, groove, and personal expression.
- demonstrate improvement in strength, coordination and rhythmic ability to execute the technical skills for performance.
- outline and describe current music and dance artists who are shaping the nature of hip hop in today's culture.

#### **DANCM16D - Hip Hop IV - Advanced**

- analyze hip hop dance movement according to the essential movement principles and cultural context.
- demonstrate improvement in strength, coordination and rhythmic ability to execute the technical skills for performance of advanced hip hop techniques.
- improvise movement within a hip hop context that takes into consideration the music style, groove, and personal expression.

#### **DANCM17 - Musical Theater Dance**

- perform in a musical show in either an informal or formal setting as appropriate for the given style of the show.
- characterize movement and dance sequences to fit the storyline or aesthetic need of the show
- Express an appreciation of dance as a collaborative art form by participating in a performance ensemble/dance cast and participating in its rehearsal and performance.

#### **DANCM18 - Dance Somatics/Cond. for Dance**

- identify values and philosophies behind dance conditioning and somatic practices.
- describe and demonstrate proper alignment methods for improving balance and control.
- identify the major components of the musculo-skeletal system as it pertains to dance.
- apply their kinesiological and anatomical understanding of the body to their dance performance.

#### **DANCM19A - Conditioning Dance: Pilates I**

- Demonstrate knowledge of the objectives and theories of practice related to the Classical Pilates Mat Work.
- Demonstrate knowledge of the objectives and theories of practice related to the Classical Pilates Reformer and apparatus work.
- Demonstrate an increase in strength, flexibility and performance function.
- Assess and utilize modifications for working with injuries/special populations needs.

#### **DANCM19B - Conditioning Dance: Pilates II**

- Assess and utilize modifications for working with injuries/special populations needs.
- Demonstrate an increase in strength, flexibility and performance function.
- Demonstrate knowledge of the objectives and theories of practice related to the Classical Pilates Reformer and apparatus work.
- Demonstrate knowledge of the objectives and theories of practice related to the Classical Pilates Mat Work.

#### **DANCM19C - Conditioning Danc: Pilates III**

- Demonstrate knowledge of the objectives and theories of practice related to the Classical Pilates Mat Work.
- Demonstrate knowledge of the objectives and theories of practice related to the Classical Pilates Reformer and apparatus work.

- Demonstrate an increase in strength, flexibility and performance function.
- Assess and utilize modifications for working with injuries/special populations needs.
- Explain how Pilates work benefits the dancer or individual outside of Pilates class.

### DANCM20A - Movement Improvisation I

- identify a variety of improvisational perspectives and practices according to genre, culture and aesthetic vision.
- define, describe and implement theoretical concepts of space, time, body, effort and shape.
- create and perform an improvisational score for which they have set the parameters and directed the group (or partner) in the score and rule set for the performance.

### DANCM20AH - Honors Movement Improv I

- identify a variety of improvisational perspectives and practices according to genre, culture and aesthetic vision.
- create and perform an improvisational score for which they have set the parameters and directed the group (or partner) in the score and rule set for the performance.
- define, describe and implement theoretical concepts of space, time, body, effort and shape.
- connect brain and body learning for cognitive, social-emotional and creative development.
- connect improvisation to disparate fields of study or cognitive, creative, aesthetic processes to disparate fields of study.

### DANCM20B - Movement Improvisation II

- design a rule set, structure, or thematic score for a solo improvisational performance.
- perform as a soloist in an improvisation setting which may include but is not limited the incorporation of props, costumes, music and set pieces.
- incorporate and utilize an understanding of dance composition within an improvisational setting, including the thorough understanding of body, action, space, time, energy, and relationship.

### DANCM20C - Movement Improvisation III

- participate in a contact improvisation performance with two or more people by demonstrating the concepts of yielding their weight to a partner and, conversely, supporting their partner in a variety of ways and in a number of situational contexts.
- identify the historical origin, current trends and key figures in contact improvisation and partnering in an improvisational context.
- perform in a variety of improvisational contexts including unique or alternative performance spaces.

### DANCM24 - Intro to Dance Education

- Identify and assess the elements of dance as a performance and practice
- Create a dance or movement based lesson plan for an elementary school classroom.

### DANCM26 - Teaching Principles for Dance

- Identify the elements of dance within a dance or movement lesson.
- Generate a dance or movement lesson plan for a defined population.

### DANCM30A - Ballroom Dance I

- identify cultures of origin and historical context of the ballroom dance they are studying.
- apply concepts of movement to improve dance performance (centerpoint of balance, posture, foot positions, transfer of weight, lead and follow).
- observe fundamental dance practices (line of dance, leading/following, maintaining the rhythm) while transitioning from one variation to the next.
- recognize the rhythm of a piece of recorded music and choose a dance from his/her repertoire which fits it.

### DANCM30B - Ballroom Dance II

- relate historical and/or cultural information to each of the dances: compare and contrast characteristic steps and styling within their geographical and historical contexts.
- apply styling characteristics of the dance and develop personal creativity in response to the music, partnering and group dynamics.
- perform beginning level patterns for the ballroom dance form with accurate rhythm, direction, and energy.

### DANCM30C - Ballroom III

- apply styling characteristics of the dance and develop personal creativity in response to the music, partnering, and group dynamics.
- perform intermediate level patterns for the ballroom dance form with accurate rhythm, direction, and energy.

- relate historical and/or cultural information to each of the dances studied; compare and contrast characteristic steps and styling within their geographical and historical contexts.

### DANCM30D - Ballroom IV

- apply styling characteristics of the dance and develop personal creativity in response to the music, partnering, and group dynamics.
- perform advanced level patterns for the ballroom dance form with accurate rhythm, direction, and energy.
- relate historical and/or cultural information to each of the dances studied; compare and contrast characteristic steps and styling within their geographical and historical contexts.

### DANCM31 - World Dance Cultures

- identify the contextual influences on a dance practices including the cultural values, music styles, society structures, and religious practices among others.
- make comparisons between diverse cultures as exemplified and embodied in dances around the globe.
- demonstrate an appreciation for dance as an art, fostered by exposure and critical analysis.

### DANCM31L - World Dance Forms

- describe the social and aesthetic function of one or more world dance forms.
- demonstrate body awareness, coordination, strength, flexibility and endurance as needed for an introductory level world dance style.
- incorporate related components into one or more world dance practices: costumes, props, musical instruments, voice, etc.
- identify music structures for the specified world dance they are studying.

### DANCM32 - Social Dance: Swing Dance

- define and describe Swing Dance as a social, cultural and performance practice.
- demonstrate physical conditioning and coordination (including but not limited to: turning, body shape, weight transfer)
- select and utilize appropriate terminology in describing dance and music fundamentals.
- recognize the beat of the music and perform basic swing steps with and without a partner while remaining on beat.

### DANCM40 - Ballet Variations

- demonstrate an understanding of fundamental ballet partnering technique: supported pirouettes, supported developpes, lifts.
- demonstrate alignment, conditioning, appreciation and technical proficiency in ballet and partnering skills.
- count and perform to musical structures in variations or pas de deux repertory.

### DANCM51 - Elements of Dance Production

- define and describe the dynamic relationship of the various aspects of a dance production.
- outline the effect student responsibility, agency, and self-reliance (or lack there of) has on the professional nature of rehearsal process and performance of dance performance.

### DANCM53 - Careers in Dance

- create a networking and marketing plan relevant to their sector of interest. Student will be able to apply skills of self-promotion in order to compile a portfolio representative of relevant talents and accomplishments.
- learn the value of contracts and best practices for clear communication of expectations for and from employers or staff. The student will be able to create a financial and "next steps" business plan for a career in dance including but not limited to opening a dance studio, dance store, or other dance related business.
- learn about the business costs related to their field of interest. Student will better know the scope of career opportunities offered in Dance, and will learn about the process of pursuing these opportunities.

### DANCM55A - Dance Rehearsal & Perf I

- model performance level technique and expression for dance.
- demonstrate evaluative skills when viewing, performing, or critiquing dance within a historical, cultural, social, personal aesthetic and/or functional context.
- cooperate with an ensemble and practice self reliance to serve an aesthetic vision or artistic concept.

### DANCM55B - Dance Rehearsal & Perf II

- model performance level technique and expression for dance in a medium to small size group work.
- demonstrate evaluative skills when viewing, performing, or critiquing dance within a historical, cultural, social, personal aesthetic and/or functional context.
- cooperate with an ensemble and practice self reliance to serve an aesthetic vision or artistic concept.

**DANCM55C - Dance Rehearsal & Perf III**

- perform a more demanding role in a small group, duet, or as a soloist.
- apply direction and coaching as provided by the choreographer to finesse a performance.

**DANCM55D - Dance Rehearsal & Perf IV**

- offer leadership and peer guidance for other members of a working dance ensemble.
- synthesize and prioritize the demands of a working dance concert to meet the aesthetic goals of a choreographer or concert director.

**DANCM56 - Performing Dance Ensemble**

- Express an appreciation of dance as a collaborative art form by participating in a performance ensemble/dance cast and participating in its rehearsal and performance.
- demonstrate an increased knowledge of successful auditioning techniques and performance expectations for dance careers and educational pathways.
- demonstrate increased knowledge of kinesthetic, somatic and alignment principles and their application to choreography and movement.
- demonstrate evaluative skills when viewing, performing or critiquing dance.

**DANCM69 - MC Spirit Team Conditioning 1**

- define and cultivate an identity or "brand" as a performer.
- learn and perform spirit routines for performance.

**DANCM70A - Spirit Practice and Perf I**

- learn and perform spirit routines for performance.
- define and cultivate an identity or "brand" as a performer.

**DANCM70B - Spirit Practice and Perf II**

- form connections with local cheer and dance teams as part of their networking and outreach training within the local cheer and spirit industry.
- improve physical and performance skills.

**DANCM70C - Spirit Practice and Perf III**

- lead or model spirit routines for performance.
- oversee collaborative assignments for the team.
- identify area(s) of growth for a specific sector of the cheer and dance team industry (performer, coach, choreographer, stunt coordinator, etc.).

**DANCM70D - Spirit Practice and Perf IV**

- improve physical and performance skills.
- model best practices for recruitment and marketing for the team as representatives of themselves and/or the MC Spirit Squad.
- lead or model spirit routines for performance.

**DANCM80 - Internship in Dance**

- demonstrate contemporary and relevant work experience in the field.

**DANCM122 - Independent Study - Dance**

- engage in a personal dance arts practice as specifically determined in conversations between the instructor and the student.

**Design****CLO****DESM80 - Internship in Design**

- develop content for a portfolio or resume.

**DESM100 - Design and Society**

- analyze and evaluate the various aspects of design, considering the design process, context, aesthetics, rhetorical use, expressive value, and sustainability.
- discuss the use of the elements and principles of design in contemporary and historical works.

- recognize the influence design has on society and society has on design.

### DESM100H - Honors: Design and Society

- analyze and evaluate the various aspects of design, considering the design process, context, aesthetics, rhetorical use, expressive value, and sustainability.
- discuss the use of the elements and principles of design in contemporary and historical works.
- recognize the influence design has on society and society has on design.

### DESM101 - Design History

- identify, compare and contrast significant movements in the history of graphic design.
- develop a foundation for the pursuit of design research.
- apply historical design aesthetic to solve contemporary design problems.

### DESM101H - Honors: Design History

- apply historical design aesthetic to solve contemporary design problems.
- develop a foundation for the pursuit of design research.
- identify, compare and contrast significant movements in the history of graphic design.

### DESM120 - Intro to Computer Graphics

- apply professional standards when choosing appropriate file types, formats, and compressions.
- demonstrate knowledge of the software technologies used in design and production for print and screen.
- demonstrate the difference between pixel and vector based graphics.

### DESM121 - Introduction to Digital Media

- create, edit, and display various digital assets in text, graphics, animation, web, video, and/or audio.
- demonstrate knowledge of the current tools and techniques in digital media.
- produce a time based media presentation using type, photo, and illustration.

### DESM125 - Digital Illustration

- construct and apply one, two, and three-point perspective grids to create an illustration with realistic perspective and lighting
- demonstrate knowledge of creating, editing and transforming line art, geometric shapes, as well as complex curves and type.
- demonstrate knowledge of preparing illustrations for print, web and animation.
- develop a workflow using color swatch libraries, color sampling and filter techniques, and create photo-realistic color transitions using gradients, blends and meshes.

### DESM126 - Image Editing

- demonstrate knowledge of tonal and color adjustment techniques.
- demonstrate knowledge of various selection and masking techniques.
- demonstrate non-destructive image editing.

### DESM127 - Digital Layout

- build interactive PDF-s and web documents.
- create and apply text and object styles.
- prepare projects for professional print output.

### DESM130 - Design I

- analyze the effectiveness of visual communication through the critique of the concepts, themes, aesthetic concerns and processes.
- demonstrate knowledge of the basic elements and principles of design.
- demonstrate original concept development, design and composition using type and image, production and presentation skills.

### DESM131 - Design II

- demonstrate a strong vocabulary related to graphic design and a thorough understanding of the components of a graphic design solution: research, strategy, concept, design, craft.
- demonstrate and employ conceptual thinking as the basis of the design process, demonstrate methods utilized in the problem solving, and visual storytelling, as well as in the refinement of the ideas.

- demonstrate proficiency in the use of digital and traditional tools and techniques for design and production.
- integrate design elements with an understanding of the intention with which elements are chosen, organized and created.

### DESM132 - Design III

- demonstrate advanced-level skills in the use of digital and traditional tools and techniques for design and production.
- demonstrate an understanding of the social, historical and theoretical contexts behind their design solutions.
- employ research as the catalyst for design ideas.

### DESM133 - Typography I

- demonstrate competency in understanding the anatomy of type.
- demonstrate the principles of typographic design for legibility.
- design, produce, and present original typographic design project.

### DESM134 - Typography II

- demonstrate proficiency in the use of digital and traditional tools and techniques for design and production of type-based solutions for print and screen.
- demonstrate typographic problem solving using the grid system and visual hierarchy.
- develop the concept, content, visual storytelling, sequence, structure and organization of a multi-page document for print and screen.

### DESM135 - Social Media Design

- apply principles of design on various social media platforms.
- demonstrate content creation for various social media platforms.
- demonstrate knowledge of the role of social media in a variety of social issues.

### DESM136 - Advertising Design

- design an ad that fits the image of the brand.
- develop a "plan of action" (creative brief) for how to position, market, and advertise a brand or social cause.
- employ humor, satire, parody, irony, passion, triumph, respect, compassion, fear, and shock as methods of making emotional connections with a client's brand or cause and making ads relevant to the target audience.

### DESM142 - Motion Graphics

- demonstrate knowledge of professional formatting, including for import assets and video export settings.
- demonstrate visual storytelling principles for time-based media.
- discuss and evaluate current tools in motion design.

### DESM143 - 3D Fundamentals

- discuss and evaluate current tools and trends in 3d modeling and animation.
- produce a professional-level 3D project utilizing 3D modeling, texturing, lighting, animation, and rendering workflows.
- utilize time-based storytelling to achieve audience response.

### DESM150 - Web Design

- conceptualize, design, and complete a professional-level website utilizing current web design workflows.
- create the user interface and web architecture that reflects the site mission statement.
- discuss and evaluate current tools in interactive and responsive web design.

### DESM151 - UI/UX Design

- create user-centered design concepts utilizing user best practices in UI/UX design.
- organize and structure screen-based content based on clear communication of subject matter and technical proficiency.
- produce a mid-level digital prototype with simulated functionality.

### DESM190 - Design Portfolio

- demonstrate the technical and creative skills required to secure entry level employment in the design field, as well as transfer.
- present a personal visual identity and utilize it in various applications.

- present a portfolio for critique to a group of peers and advisers.

### DESM191 - Design Business Practices

- create an online presence for a business.
- create and manage a digital media business workflow.
- manage a digital media business budget.

## Film, Television, Media Arts

### CLO

#### FTMAM80 - Internship in FTMA

- develop content for a portfolio or resume.

#### FTMAM100 - Intro to Mass Communications

- apply theories of media effects and/or mass communications to critically assess and analyze the impact of media on diverse groups (e.g. culture, religion, age, gender, gender, and race).
- critically analyze and evaluate information distinguishing assertions of fact from opinion, evaluating the source of information and understand the value of multiple sources.

#### FTMAM101 - Introduction to Cinema

- Demonstrate an understanding of the various innovations throughout cinematic history, and how they inform aesthetic and socio-cultural themes, patterns and influences in selected films
- Demonstrate knowledge of film form (narrative content, mise-en-scène, cinematography, editing, sound aesthetics and performance styles) and interpret those different aesthetic properties in the context of selected films.

#### FTMAM102 - Intro to Television Studies

- recognize and analyze the cultural content, influences, and aesthetic patterns and influences of and in television.
- examine developments in television programming and technological innovation.

#### FTMAM103 - Intro to Media Aesthetics

- demonstrate the ability to critically write about aesthetic elements in the media using specific language.
- compare critically and contrast the elements common the theatrical releases and the television narrative.
- demonstrate recognition of the tools used in visual and audio and analyze why they are used to create visual images in media aesthetics.

#### FTMAM104 - Intro to Documentary Studies

- analyze documentary films as cinematic socio-cultural engagement in relation to topics such as periods, styles, genres, and movements by using film terminology.
- differentiate the theories and styles of documentary filmmakers within film history from the 1890s to the present.
- apply stylistic film analysis to historical periods of documentary film history.

#### FTMAM105 - Hist Intl Cinema I: to WWII

- demonstrate the use of basic terminology of film form and criticism to analyze international film narratives from film's emergence to WWII.
- identify prominent international filmmakers and film movements from film's emergence to WWII
- interpret the connection between aesthetics and technological developments in early international cinema.

#### FTMAM106 - Hist of Intl Cine: WWII-Present

- demonstrate the use of basic terminology of film form and criticism to analyze international film narratives from WWII to present.
- identify, describe, and compare prominent international filmmakers and film movements from WWII to present
- interpret the connection between aesthetics and technological developments in international cinema from WWII to present.

#### FTMAM107 - Directors and Genres

- Demonstrate an understanding of the aesthetic, socio-cultural, and historical importance and impact of significant "auteurs" (directors) and the genres in which they work.
- identify and analyze salient cinematic techniques employed by the specified film directors and extract meaning from these artistic choices.

#### FTMAM108 - Women in Cinema

- Analyze depictions of hegemonic patriarchy in selected films, and compare and contrast changes in the commentary being made about the institution.
- Demonstrate an understanding of key concepts concerning the representation of women (gender, race, class and other areas of diversity) in selected films and behind the camera

### **FTMAM109 - Contemporary American Cinema**

- Discuss the cultural, socio-economic, entertainment industry innovations, and politics in the context of selected films.
- Demonstrate understanding various historically significant representations of nationhood in American film from 1970 to the present.

### **FTMAM110 - Contemporary Global Cinema**

- Analyze shifting representations of nationalism, cultural identity, socio-historical situations and their influence upon cinema from around the world.
- compare the various aesthetic characteristics and production practices of national cinemas.

### **FTMAM115 - Introduction to Media Writing**

- analyze and understand film and television story structure and apply the theory of script writing in critiques.
- describe what a motion picture or television treatment is and why treatments are important.
- integrate professional standards of writing into introductory-level script writing activities.

### **FTMAM122 - Independent Study-FTMA**

- develop content for a viable portfolio or resume.

### **FTMAM124 - Introduction-Television Studio**

- recognize the importance of time management when organizing the steps needed to prepare a simple multi-camera studio production.
- organize pre-production elements and breakdown a script for a basic studio production.
- crew on a simple multi-camera studio production.

### **FTMAM125 - Intermediate Television Studio**

- recognize the importance of time management when organizing the steps needed to prepare a complex multi-camera studio production.
- perform the functions of an associate director and floor manager as assistant to the director.
- organize pre-production elements and breakdown a script for a complex studio production.

### **FTMAM126A - Non-Fiction/Reality Production**

- conceive and script a short package for a reality-based program.
- shoot, light and record a short package for a reality-based program.
- edit and output a finished package for a reality-based program.

### **FTMAM126B - Non-Fiction/Reality Prod II**

- conceive and script a short package for a reality-based program.
- shoot, light and record a short package for a reality-based program.
- edit and output a finished package for a reality-based program.

### **FTMAM130 - Beginning Single Camera Prod**

- dramatize the importance of script development and storyboarding.
- demonstrate the basic artistic aspects of single camera video production.
- demonstrate the basic technical aspects of single camera video production.

### **FTMAM134 - Producing & Directing Film &TV**

- create a film budget and a production schedule.
- breakdown a film script into storyboards and setups.

### **FTMAM138 - Beginning Motion Picture Prod**

- demonstrate the basic understanding of the digital workflow.
- successfully construct an advanced final project that reflects the techniques shown in the storyboard as measured against a departmental rubric.
- demonstrate their skills in cinematography through the use of the digital cinema camera with interchangeable lenses and appropriate

lighting.

#### **FTMAM140 - Beginning Audio Production**

- create quality audio recordings using current and evolving technologies.
- demonstrate correct microphone placement in studio and location recordings.

#### **FTMAM145A - Beginning Radio and Podcasting**

- demonstrate their knowledge of digital audio equipment by performing basic audio recording.
- demonstrate their knowledge of digital audio equipment by performing basic editing tasks.

#### **FTMAM145B - Inter. Radio and Podcasting**

- demonstrate their knowledge of digital audio equipment, by setting up an intricate radio broadcast.
- demonstrate their knowledge of digital audio equipment, by performing an intricate radio broadcast.

#### **FTMAM170 - Digital Editing**

- demonstrate an understanding of the terminology of editing when used in storytelling.
- recognize the importance of shot selection, shot duration, and juxtaposition when analyzing a sequence.
- construct a digital non-linear edited video project.

#### **FTMAM175 - Digital Asset Management**

- demonstrate their knowledge of digital asset management by building successful workflows.
- develop digital asset management standard operational procedure manual.

#### **FTMAM190A - Film Production Portfolio I**

- recognize the importance of time management when constructing a complex film/video production.
- create a short 5 to 10 minute video that can be used in the student's portfolio.

#### **FTMAM190B - Film Production Portfolio II**

- create a thirty minute production in a specific genre.
- produce or direct a scene in a complex film/video production.

#### **FTMAM192A - Television Studio Portfolio I**

- create a short, live on-tape studio production scene that will be evaluated by a department rubric.
- develop a shot list for a two page live on-tape studio production.

#### **FTMAM192B - Television Studio Portfolio II**

- create a complex studio production that will be evaluated by a department rubric.
- develop the schedule and breakdown for a 30 minute studio production.

#### **FTMAM194A - Documentary Prod Portfolio I**

- propose and write a simple documentary production that will be evaluated by a department rubric.
- set up simple studio interviews.
- consider venues and opportunities for a non-fiction production.

#### **FTMAM194B - Documentary Prod Portfolio II**

- produce a complex, well-crafted and compelling documentary project.
- arrange legal aspects for shooting at various venues.
- set up complex interviews in field locations.

### **Game Design**

#### **CLO**

#### **GAMEM80 - Internship in Game Design**

- demonstrate contemporary and relevant work experience in the field.

### GAMEM101 - Introduction to Game Design

- collect data utilizing resonance (audience response), to your prototype and document critique to further iterate on your designs.
- define a clear message using concept development, story development, character development, etc., in the story and/or actions of your players and game.
- demonstrate an ability to conceptualize and complete a GDD utilizing game design workflows.
- utilize the design process (technical research, previsualization techniques, project iteration, etc.), to create a playable prototype of a unique mechanic.

### GAMEM102 - Game Design Technologies I

- collect data utilizing resonance (audience response), to your game's message and document critique to game flow and mechanic functionality.
- demonstrate an ability to conceptualize and complete a basic digital game utilizing game design workflows.
- present form (gestalt, visual hierarchy, etc.), in your UI and art style for ease of access, understanding, and play.
- utilize the design process (technical research, previsualization techniques, project iteration, etc.), to program a playable prototype of a unique game focused on mechanic design.

### GAMEM105 - 3D for Game Design

- collect data utilizing resonance (audience response), to your scene and character presentations and feedback based on your 3D assets in engine.
- display an ability to conceptualize and complete a variety of 3D environment, prop, and character assets using industry workflows.
- utilize the design process (technical research, previsualization techniques, project iteration, etc.), to showcase an understanding of materials, geometry, and flow in 3D space.
- define a message (environment design, character design, story-telling, etc.), through clever use of assets, lighting, and textures.
- demonstrate technical execution (using industry standard software applications), to create characters, scenes, and props for use within game engines.

### GAMEM110 - Game Theory and Mechanics

- demonstrate an ability to dissect a game and complete a working analog game design utilizing game design workflows
- utilize the design process (technical research, previsualization techniques, project iteration, etc.), to show an understanding of game development at a core level including gameplay loops, mechanics, and player expectations
- define a message (concept development, gameplay rules and mechanics, etc.), within selected games by analyzing what is presented to the player
- present form (gestalt, visual hierarchy, etc.), in your prototypes and rules for ease of play, understanding, and direction
- put into use technical execution (using industry techniques), for team prototypes and analysis
- draft and present a high level design document based on either an original intellectual property or inspired by concepts presented by instructor

### GAMEM115 - Game Level Design

- demonstrate an ability to conceptualize and complete a level for an existing IP, a level showcasing emergent gameplay, and an Unreal engine level utilizing game design workflows
- utilize the design process (technical research, previsualization techniques, project iteration, etc.), to create a playable prototype showcasing level spaces and an emphasis on the psychological stimulation in level design.
- collect data utilizing resonance (audience response), to your levels, player agency, and subverting player expectations

### GAMEM202 - Game Design Technologies II

- demonstrate an ability to design and build a game focused on Virtual Reality functionality and interactions utilizing the game design process.
- define a clear message, in the story and/or actions of your game and AR/VR usage within the game space.
- present form (gestalt, visual hierarchy, etc.), in your VR spaces with clear direction and interface / interactions for your player.
- utilize technical execution by integrating tools from Unity or Unreal for VR and selecting the correct VR/AR Headset and Controllers for your product.

### GAMEM210 - Game Design Studio

- demonstrate an ability to work as a production team, conceptualizing a vertical slice of a game utilizing game design workflows.
- utilize technical execution, by integrating tools, professional pipelines, and development concepts into your development process.
- define a clear message, in the overall project, characters, storytelling, and art style.
- present form (gestalt, visual hierarchy, etc.), in your designs, User Interface, art, and levels with clear direction and guidance for your

players.

- utilize the design process, to create an unique game experience in either 2D or 3D, iterating on the project over the course of several presentations, playtest, and reviews.

## Journalism

### CLO

#### JOURM01 - Intro to Mass Communications

- apply theories of media effects and/or mass communications to critically assess and analyze the impact of media on diverse groups (e.g. culture, religion, age, gender, and race).
- critically analyze and evaluate information distinguishing assertions of fact from opinion, evaluating the source of information and understand the value of multiple sources.

#### JOURM02 - Digital Media Reporting & Wri

- apply critical reasoning and analysis to issues of ethics and accuracy in the mass media today or to create journalistic articles for publication.
- synthesize and prioritize elements in a news or feature story to construct an inverted pyramid style article including: hard news and anecdotal leads with supporting information and nut paragraphs.
- conceive and execute a journalistic style multimedia story or component using audio and video to tell a story visually.

#### JOURM03 - Adv. Digital Media Rptg & Wtg

- apply critical reasoning and analysis to issues of ethics and accuracy in the mass media today or to create journalistic articles for publication.
- gather and synthesize information from multiple and diverse sources to create an intermediate-level journalistic story, demonstrating balance, accuracy and fairness.
- gather and synthesize information from multiple and diverse sources in multiple media to create an intermediate-level video or visual journalistic story, demonstrating balance, accuracy and fairness.

#### JOURM05 - Intro to Vis. Comm.

- analyze the personal, social and political impact that various visual messages have on people and society in terms of consumer visual literacy.
- assess and critique the legal and ethical issues and considerations surrounding visual media.

#### JOURM10A - Stdt News Digital Media Staff

- produce a fair and factual article that is worthy of publication.
- evaluate and apply the ethical tenets of the Society of Professional Journalists Code of Ethics in all stories produced for publication, in terms of truth, accuracy, fairness, minimizing harm and accountability to readers

#### JOURM10B - Student News Media Staff Edit

- examine and edit advanced data and incorporate its corrections and compositions into completed news stories.
- execute collegiate editorial feedback on staff writer submissions, responding on deadline, provide ample news stories to add to their departments.
- synthesize pivotal points of information in their weekly edits and staff writer stories to translate to a broadcast or podcast script to be read for the Moorpark Reporter.

#### JOURM10D - Student News Media Edit II

- examine advanced data and incorporate its findings into their news story developments; pull data from trends found in markets and craft a summary of their findings.
- synthesize pivotal points of information in their weekly stories to translate to a broadcast and podcast script to be read for the Moorpark Reporter.
- conceive and execute journalistic style digital multimedia news stories throughout the semester that are published in the Moorpark Reporter.

#### JOURM14 - Digital Public Relations

- analyze the role, impact, and ethics of public relations in the community, nation and world.
- research , plan and create an introductory-level public relations campaign with components in multiple media, including print, graphic, still and video elements.

#### JOURM15 - Digital Storytelling

- employ news, social, and other media platforms to communicate and publish ideas and digitally created content in audio, video, photo, text, and other visual forms

- report and produce a video and audio story package following journalistic standards in ethics, accuracy, and balance.

### JOURM16 - Social Media

- determine the practical and theoretical implications of emerging media technologies on all sectors of life on local, regional and international scales.
- analyze digital and social media to become fluent in the practices, ethics, laws and conventions of these spheres.
- conceive and execute social media for a public relations and marketing campaign.

### JOURM80 - Internship in Journalism

- demonstrate contemporary and relevant work experience in the Journalism field.

### JOURM122 - Independent Study - Journalism

- evaluate a specific journalistic process in the digital media field.
- develop a professional skill set used in the digital media industry.

## MakerSpace

### CLO

#### MAKRM103 - Intro to Digital Fabrication

- demonstrate foundation level understanding of the elements and principles of three-dimensional design and their application in hands-on projects in digital fabrication and rapid prototyping.
- demonstrate design thinking and create physical prototypes of their solutions using 3D printing, Laser Cutting, and CNC Milling, so that the user can engage and react to it.
- demonstrate creative and critical thinking as they research, produce, analyze and evaluate digitally fabricated objects.

#### MAKRM901 - Intro to MakerSpace

- recognize the role of the MakerSpace on campus and within culture
- identify rapid prototyping and MakerSpace equipment
- demonstrate MakerSpace safety

#### MAKRM903 - Intro to Design Thinking

- demonstrate an understanding of the design thinking process through its application to problems.
- recognize and explain the stages of design thinking.
- demonstrate the iterative nature of design thinking.

#### MAKRM910 - Illustrator for the MakrSpce I

- create and edit Illustrator documents
- use tools to create, edit, and manipulate designs
- demonstrate ability to use and adjust software functions

#### MAKRM920 - Vinyl Cutting and Printing I

- use the vinyl printer/cutter to computer interface
- operate the vinyl printer
- operate the vinyl cutter
- operate the heat press

#### MAKRM923 - Vnyl Cttnng and Prntng Prod Shp

- demonstrate the ability to operate the vinyl cutter, vinyl printer, and heat press.
- demonstrate communication skills within a team environment.
- demonstrate the ability to assess and troubleshoot production problems.
- demonstrate workflow skills.

#### MAKRM925 - Laser Cutting and Engraving I

- prepare files for printing on the laser cutter.

- demonstrate the ability to engrave and cut a variety of materials with the laser cutter.
- operate the laser cutter safely.

#### MAKRM928 - Lzr Ctng and Engrve Prod Shop

- demonstrate the ability to assess and troubleshoot production problems
- demonstrate communication skills within a team environment
- demonstrate the ability to operate the laser cutter
- demonstrate workflow skills

#### MAKRM930 - Screen Printing for Textiles I

- demonstrate the ability to clean, prepare and expose screens for printing.
- demonstrate the ability to print and cure one and two screen designs on a variety of textile materials.
- demonstrate screen printing shop safety.

#### MAKRM935 - Scn Prntng for Txtle Prod Shop

- demonstrate the ability to perform screen printing jobs.
- demonstrate communication skills within a team environment.
- demonstrate the ability to assess and troubleshoot production problems.
- demonstrate production workflow skills.

### Music

#### CLO

##### MUSM01 - Music Fundamentals

- read and notate pitch and rhythmic notation.
- construct Major and minor scales with correct key signatures.
- identify intervals and triads in various qualities.

##### MUSM02A - Music Theory I

- write short compositions using correct voice leading and music notation habits.
- analyze short music examples to identify cadences and harmonic rhythm.
- analyze short excerpts of scores and songs by composers and songwriters from diverse backgrounds, artistic styles, aesthetics, and cultures.

##### MUSM02AL - Musicianship I

- perform sight-singing and dictation exercises of basic step-wise melodies

##### MUSM02B - Music Theory II

- identify and write secondary dominants and non-chord tones.
- write short compositions using correct voice leading and music notation habits
- identify rhythmic devices such as the son clave and reggaeton in musical scores.

##### MUSM02BL - Musicianship II

- perform sight-singing and dictation exercises in simple and compound meters using various diatonic modes.

##### MUSM02C - Music Theory III

- write a composition with multiple parts, using standard voice leading practices and inclusion of non-chord-tones.

##### MUSM02CL - Musicianship III

- perform sight-singing and dictation exercises in simple and compound meters featuring triplets and duplets in syncopation.

##### MUSM02D - Music Theory IV

- articulate and identify differences between several musical trends from the 20th century, including but not limited to experimentalism, serialism, minimalism, jazz, hip hop, salsa, and reggae.

- identify the prime form for a given collection of pitches and determine its interval vector.
- write a short composition demonstrating use of quartal/quintal chords, secundal harmonies, and mixed meter.

#### MUSM02DL - Musicianship IV

- successfully sing a twelve-tone row

#### MUSM03 - Intro to Music Technology

- create a finished recording of a performance or a MIDI sequenced composition using digital audio editing and processing techniques.

#### MUSM04 - Survey of World Music

- identify predominant musical features of melody, rhythm, texture, form, and timbre.
- examine issues that are raised when inquiring into the unfamiliar expressions of other cultures. Recognize "ethnocentrism" and bases of judgment as music of non-Western cultures reflects social activities of that culture.
- relate musical performance to its broader social context, as music is connected to activities, such as work songs, love songs, storytellings, ritual, social comment, games, lullabies, and word-play.
- recognize and identify musical styles and stylistic characteristics representing various cultures.

#### MUSM04H - Honors: Survey of World Music

- identify predominant musical features of melody, rhythm, texture, form, and timbre.
- examine issues that are raised when inquiring into the unfamiliar expressions of other cultures; recognize ethnocentrism and bases of judgment as music of non-Western cultures that reflect social activities of that culture.
- relate musical performance to its broader social context, as music is connected to activities such as work songs, love songs, storytellings, ritual, social comment, games, lullabies, and word-play.
- recognize and identify musical styles and stylistic characteristics representing various cultures.
- recognize country of origin and describe musical styles based on the above characteristics; compare and contrast musical characteristics of different cultures.

#### MUSM05 - Electronic Music

- create original music by means of synthesis, sampling, sequencing, and effects processing.
- demonstrate a knowledge of relevant topics and social issues pertaining to current trends in electronic music.
- apply the basics of musical instrumental digital interface (MIDI) and open sound control (OSC) routing, messages, and mapping techniques.

#### MUSM07 - Introduction to Music Business

- demonstrate a basic understanding of intellectual property rights, including an understanding of works of authorship and copyright.
- articulate the roles and responsibilities of various music industry stakeholders such as managers, agents, artists, attorneys, labels, and publishers.

#### MUSM08 - Music Appreciation

- recognize and identify musical styles and stylistic characteristics from five historical periods.
- choose appropriate terminology when conversing or writing about music.
- demonstrate understanding of ways in which music interacts with art, literature, and other expressive forms of culture.

#### MUSM08H - Honors: Music Appreciation

- recognize and identify musical styles and characteristics from five historical periods.

#### MUSM09A - Music History I

- identify each historical periods of Western Music from Ancient Greek to the Baroque era, and place them in correct chronological order.
- recognize and identify key concepts and composers of Western music from Ancient Greek to the Baroque era.
- identify historical periods in listening to examples from Ancient Greek to Baroque era.

#### MUSM09AH - Honors: Music History I

- identify each historical period of Western Music from Ancient Greek to the Baroque era, and place them in correct chronological order.
- recognize and identify key concepts and composers of Western music from Ancient Greek to the Baroque era.
- identify historical periods in listening to examples from Ancient Greek to Baroque era.

#### MUSM09B - Music History II

- identify each historical periods of Western Music from Baroque to the modern stylistic eras, and place them in correct chronological order.
- recognize and identify key concepts and composers of Western music from Baroque to the modern stylistic eras.
- identify historical periods in listening to examples from Baroque to the modern stylistic eras.

### **MUSM09BH - Honors: Music History II**

- recognize and identify key concepts and composers of Western music from Baroque to the modern stylistic eras.
- identify each historical period of Western Music from late Baroque to the modern stylistic eras, and place them in correct chronological order.
- identify historical periods in listening to examples from Baroque to the modern stylistic eras.

### **MUSM10 - Concert Choir**

- identify different styles of choral music representing various historical periods and stylistic genres.

### **MUSM11 - Songwriting**

- Demonstrate ability to recognize and compose songs in these forms: Refrain, 32 Bar AABA, 12 Bar Blues.
- Compose chord progressions that are frequently used in popular music.
- Compose melodies that demonstrate range, shape, and phrase structure that are appropriate for popular music.

### **MUSM12 - Vocal Ensemble**

- identify the different styles of choral music representing various historical periods, styles, and cultures. and stylistic genres.
- demonstrate an ability to perform in both solo and ensemble settings.

### **MUSM13A - Fundament-Vocal Tech I**

- demonstrate improvement in their fundamental vocal technique and singing ability.

### **MUSM13B - Fundament-Vocal Tech II**

- demonstrate appropriate vocal styles and diction for song literature in languages other than English.
- demonstrate continued improvement in their fundamental vocal technique and singing ability.

### **MUSM13C - Adv Vocal Development I**

- demonstrate advanced vocal technique skills and singing ability.
- demonstrate appropriate character portrayal for opera or oratorio works.

### **MUSM13D - Adv Vocal Development II**

- demonstrate convincing character portrayal and staging.
- identify improvements in their individual singing using vocal pedagogy and anatomy language.

### **MUSM18 - Jazz Ensemble**

- analyze differences and similarities in various jazz styles.

### **MUSM21 - Wind Ensemble**

- correctly identify different styles of wind ensemble and symphonic band music representing various historical periods.

### **MUSM23 - Moorpark Symphony Orchestra**

- identify and perform various styles of orchestral literature.

### **MUSM24 - Intro to Music Education**

- Create an elementary music lesson plan incorporating vocal or instrumental music.
- Identify and assess the elements of music in performance.

### **MUSM25A - Class Piano-Beginning I**

- perform correctly two octaves Major and minor scales using both hands at Andante tempo.
- read the grand staff proficiently.

### **MUSM25B - Class Piano-Beginning II**

- Play upper elementary-level piano music composed in major and minor five-finger positions.
- Play major scales with sharp key signatures, 2 octaves, hands together.

**MUSM25C - Class Piano-Intermediate I**

- demonstrate sight-reading ability and score-reading in three staves.
- expressively perform lower-intermediate level piano literature of the major composers with interpretation characteristic of the historical period.
- demonstrate intermediate-level piano technique, coordination, fingering principles, and independence of hands.

**MUSM25D - Class Piano-Intermediate II**

- demonstrate sight-reading ability including simple score reading in three to four staves.
- expressively perform upper-intermediate level piano literature of the major composers, with interpretation characteristic of the historical period.
- play major and minor scales and arpeggios up to four octaves, hands together.

**MUSM30A - Applied Music-Woodwind**

- demonstrate improved musical skills on their instruments from time of audition or previous semester's jury rating through end-of-semester music jury performance.

**MUSM30B - Applied Music - Brass**

- demonstrate improved musical skills on their instruments from time of audition or previous semester's jury rating through end-of-semester music jury performance.

**MUSM30C - Applied Music - Strings**

- demonstrate improved musical skills on their instruments from time of audition or previous semester's jury rating through end-of-semester music jury performance.

**MUSM30D - Applied Music - Piano**

- demonstrate improved musical skills on their instruments from time of audition or previous semester's jury rating through end-of-semester music jury performance.

**MUSM30E - Applied Music - CI Guitar**

- demonstrate improved musical skills on their instruments from time of audition or previous semester's jury rating through end-of-semester music jury performance.

**MUSM30F - Applied Music - Percussion**

- demonstrate improved musical skills on their instruments from time of audition or previous semester's jury rating through end-of-semester music jury performance.

**MUSM30G - Applied Music - Voice**

- demonstrate improved musical skills on their instruments from time of audition or previous semester's jury rating through end-of-semester music jury performance.

**MUSM31 - Musical Theatre/Opera Workshop**

- Demonstrate familiarity with the specialized vocabulary of opera and/or musical theatre.
- Demonstrate knowledge of and familiarity with standard stage literature as appropriate to production.
- Perform in at least one scene from opera or musical theatre.

**MUSM31A - Opera Workshop I**

- demonstrate an understanding of the skills and habits necessary to successfully prepare for a staged performance.

**MUSM31B - Opera Workshop II**

- demonstrate an understanding of the skills and habits necessary to successfully prepare for a contemporary staged performance.

**MUSM33 - Pop Music Ensemble**

- demonstrate an ability to perform in both solo and ensemble settings in various popular and contemporary styles.

**MUSM34 - Contemporary Vocal Ensemble**

- demonstrate an ability to perform in both solo and ensemble settings in pop and jazz styles.
- demonstrate a regular and consistent practice routine to achieve high musical preparation.

**MUSM35 - Networking and Negotiations**

- cultivate a professional network within the music industry and leverage relationships to yield favorable negotiations.

**MUSM80 - Internship in Music**

- Develop on-the-job learning objectives that demonstrate new and expanded learning at the work site that directly relate to the student's

educational or occupational goal (major or career).

- Demonstrate successful workplace human dynamics, which may include: working as part of a team, following implicit and explicit instructions including company policies and procedures, and practicing work ethics.
- Demonstrate appropriate work skills such as communication, problem solving, decision making, teamwork, self-management, initiative, and/or technical skills that are gained as a result of new and expanded learning at the worksite.
- Organize and maintain occupational work experience records, including time sheets, a consultation record, and learning objective proposals, evaluation, and documentation.
- Appraise and evaluate the occupational work experience situation as it applies to the student's educational or occupational goals (major or career) in written or verbal format in the form of a paper, project, or presentation.

#### **MUSM100 - Advanced Concert Choir**

- identify different styles of choral music representing various historical periods and stylistic genres at an advanced level.

#### **MUSM120 - Advanced Vocal Ensemble**

- perform advanced choral literature with historically informed practices.
- demonstrate advanced musicianship by sight singing both correct pitches and text simultaneously.

#### **MUSM122 - Independent Study - Music**

- demonstrate a deeper understanding of the music discipline as specifically determined in the student-developed learning objectives in consultation with the instructor.

#### **MUSM123 - Independent Study - Music II**

- demonstrate a deeper understanding of the music discipline as specifically determined in the student-developed learning objectives in consultation with the instructor.

#### **MUSM134 - Adv Contemp Vocal Ensemble**

- demonstrate advanced practice habits and routines to achieve high musical preparation.
- demonstrate an advanced ability to perform in both solo and ensemble settings in pop and jazz styles.

#### **MUSM180 - Advanced Jazz Ensemble**

- identify different styles of jazz music representing various periods and cultures at an advanced level.

#### **MUSM210 - Advanced Wind Ensemble**

- identify different styles of wind ensemble repertoire representing various periods and cultures at an advanced level.

#### **MUSM230 - Symphony Orchestra - Advanced**

- perform various styles of orchestral literature at an advanced level.

### **Photography**

#### **CLO**

#### **PHOTM10 - Beginning Photography**

- articulate and express themselves and their ideas/concepts through the use of techniques and technologies appropriate for introductory photography.
- demonstrate creative and critical thinking, with an awareness and sensitivity to historical and cultural differences of important photographic works.
- demonstrate knowledge of RAW file processing through exposure and contrast adjustments using a camera raw editor.

#### **PHOTM20 - Intermediate Photography**

- demonstrate how to operate Medium Format and Large Format film cameras.
- identify and reproduce the right exposure.
- begin to develop and formulate a personal vision or ideation.

#### **PHOTM30A - Advanced Photography I**

- complete an extended photographic project while creating a body of work that meets professional standards.
- demonstrate the relationship between exposure, development and contrast in large format photography.
- demonstrate comprehension of foundational essays in the history of photography through class discussions.

#### **PHOTM30B - Advanced Photography II**

- complete an extended photographic project while creating a body of work that meets professional standards.
- demonstrate the control of Depth of Field using the front tilt and Perspective Distortion using the back tilt in large format photography.
- demonstrate comprehension of foundational essays in the history of photography through class discussions.

#### PHOTM40 - History of Photography

- recognize iconic images in the history of photography.
- increase their understanding of the history of photography.
- recognize the influence photography has on culture and culture has on photography.

#### PHOTM80 - Internship in Photography

- demonstrate contemporary and relevant work experience in the photography field.

#### PHOTM122 - Independent Study-Photography

- demonstrate improved skills in photography as identified for the independent study project

### Technical Theatre

#### CLO

#### THAM29 - Special Makeup SFX

- utilize script analysis and intermediate research skills to explain the artistic concepts for make-up choices that support the theme, style and period of the play.
- demonstrate through practical application the intermediate design and application of realistic and stylized stage makeup.

#### TTHAM11A - Theatre Production: Tech I

- demonstrate introductory/intermediate/advanced level skills addressing the technical and artistic needs of a theatrical production, during the pre-production period and all the processes needed to mount a live theatrical production.
- demonstrate introductory/intermediate/advanced level skills and duties to execute a live theatrical production during the technical rehearsal and performance period through the close of production.
- demonstrate introductory/intermediate/advanced level skills in inter-personal communication and teamwork, and will demonstrate collaboration working with peers, production staff, and faculty.

#### TTHAM11B - Theatre Production: Tech II

- demonstrate introductory/intermediate level skills addressing the technical and artistic needs of a theatrical production, during the pre-production period and all the processes needed to mount a live theatrical production.
- demonstrate introductory/intermediate level skills and duties needed to execute a live theatrical production during the technical rehearsal and performance period through the close of production.
- demonstrate introductory/intermediate level skills in inter-personal communication and teamwork, and will demonstrate collaboration working with peers, production staff, and faculty.

#### TTHAM11C - Theatre Production: Tech III

- demonstrate intermediate to advanced level skills addressing the technical and artistic needs of a theatrical production, during the pre-production period and all the processes needed to mount a live theatrical production.
- demonstrate intermediate to advanced level skills and duties needed to execute a live theatrical production during the technical rehearsal and performance period through the close of production.
- demonstrate Intermediate to advanced level skills in inter-personal communication and teamwork, and will demonstrate collaboration working with peers, production staff, and faculty.

#### TTHAM11D - Theatre Production: Tech IV

- demonstrate advanced level skills addressing the technical and artistic needs of a theatrical production, during the pre-production period and all the processes needed to mount a live theatrical production.
- demonstrate advanced level skills and duties needed to execute a live theatrical production during the technical rehearsal and performance period through the close of production.
- demonstrate advanced level skills in inter-personal communication and teamwork, and will demonstrate collaboration working with peers, production staff, and faculty.

#### TTHAM12A - Technical Theatre Practicum I

- demonstrate proper shop and theatre safety rules as part of a production team.
- identify theatre shop tools used in the construction of scenic elements.
- demonstrate proper technical knowledge and back-stage conduct in the process of performing running crew duties for productions.

**TTHAM12B - Technical Theatre Practicum II**

- demonstrate proper technical knowledge and back-stage conduct in the process of performing running crew duties for productions.
- demonstrate proper shop and theatre safety rules as part of a production team.
- identify theatre shop tools used in the construction of scenic elements.

**TTHAM12C - Tech Theatre Practicum III**

- identify theatre shop tools used in the construction of scenic elements.
- demonstrate proper shop and theatre safety rules as part of a production team.
- demonstrate proper technical knowledge and back-stage conduct in the process of performing running crew duties for productions.

**TTHAM20 - Stagecrafts**

- demonstrate the knowledge and application of technical terminology for the stage.
- demonstrate the ability to safely use tools and raw construction materials for constructing a set for production.
- demonstrate the ability to properly utilize theatrical lighting and/or audio equipment for production.

**TTHAM23A - Lighting Design I**

- utilize technical skills through practical application in the basic operation of lighting equipment during live presentation.
- demonstrate the ability to articulate the understanding of the basic principles of light, shadow and the theories of color and lighting.
- demonstrate the ability to create an instrument schedule and basic light plot for a live stage presentation.

**TTHAM23B - Lighting Design II**

- utilize script analysis skills to justify the use of specific lighting applications to support the theme, style and period.
- utilize technical skills through practical application in the basic operation of lighting equipment during live presentation.
- demonstrate the ability to articulate the understanding of the basic principles of light, shadow and the theories of color and lighting.
- demonstrate the ability to create an instrument schedule and basic light plot for a live stage presentation.

**TTHAM25A - Scene Design I**

- demonstrate a basic understanding of design concepts and play analysis through research and basic conceptual and artistic studies of a theatrical design.
- demonstrate a basic understanding of the design process and the elements needed to execute a final design through the utilization of various processes and projects needed to execute a theatrical design project.
- demonstrate basic skills and techniques in creating various drawings and treatments needed in the theatrical design process

**TTHAM25B - Scene Design II**

- demonstrate an understanding of design concepts and play analysis through research and basic conceptual and artistic studies of a theatrical design.
- demonstrate an understanding of the design process and the elements needed to execute a final design through the utilization of various processes and projects needed to execute a theatrical design project.
- demonstrate the ability to execute a theatrical design project from the conceptual stage to a fully realized production element.

**TTHAM27A - Costume Design I**

- demonstrate the ability to sew basic costumes utilizing patterns and various fabrics.
- utilize script analysis and basic research skills to explain the artistic concepts for costume choices that support the theme, style and period of a play.

**TTHAM27B - Costume Production**

- utilize script analysis and intermediate level research skills to explain the artistic concepts for costume choices that support the theme, style and period of a play.
- demonstrate the ability to sew basic costumes utilizing patterns and various fabrics.
- demonstrate through practical application an intermediate design and construction of a costume for the stage.

**TTHAM28 - Production Makeup**

- utilize script analysis and basic research skills to explain the artistic concepts for makeup choices that support the theme, style and period of a play.
- demonstrate through practical application the basic design and application of realistic and stylized stage makeup.

**TTHAM50 - Performing Arts Management**

- demonstrate the ability to interface with management, staff, and the public while executing services in the box office and/or front of the house.
- utilize planning theories and practices to research, develop, and plan a program of performances and/or events.
- demonstrate an understanding of the roles and responsibilities for marketing, development, advertising, and box office personnel.

**TTHAM900 - Skills in Tech Theatre/Film/TV**

- demonstrate the ability create an industry specific resume and research employment opportunities within the technical theatre, film and television industries

**TTHAM901 - Applied Tech Theatre Lighting**

- demonstrate the ability to hang, focus, program and/or operate lighting technologies.

**TTHAM902 - Appld Tech Theatre Audio Prod**

- demonstrate the ability to rig, wire, set up microphones and speakers and/or program and operate digital audio boards.

**TTHAM903 - Appld Theatre Stage Management**

- demonstrate the ability to annotate blocking, generate cast calls and rehearsal reports and/or record and call cues for a live production.

**TTHAM904 - Appld Practice Theatre Costume**

- demonstrate the ability to use and apply a variety of costuming materials for an advanced project or production.

**TTHAM905 - Appld Practice Theatre Makeup**

- demonstrate the ability to use various intermediate to advanced makeup materials to support a specific design or production.

**Theatre Arts****CLO****THAM01 - Introduction to Theatre**

- observe theatrical performances in an informed and critical manner to analyze the historical, social and political relevance of the piece.
- demonstrate an understanding of the history of theatre and its cultural, social and political influences from the Greeks to the twentieth century.

**THAM01H - Honors: Introduction to Theatr**

- utilize skills in dramatic criticism to illustrate a world view of classical and contemporary dramatic literature.
- observe theatrical performances in an informed and critical manner to analyze the historical, social and political relevance of the piece.
- demonstrate an understanding of the history of theatre and its cultural, social and political influences from the Greeks to the twentieth century.

**THAM02A - Acting I**

- demonstrate an understanding of collaboration through performance of scene work.
- demonstrate the ability to perform an improvisation or scene from contemporary American theatre at an introductory skill level.
- demonstrate the basic tenants of script and performance analysis and utilize the vocabulary specific to acting on the stage.

**THAM02B - Acting II**

- demonstrate a basic understanding of classical literature and the specific performance requirements of classical material.
- demonstrate the ability to perform scenes in a variety of theatrical styles from classical to contemporary comedy.
- demonstrate an intermediate level of script and performance analysis and be able to articulate character motivation.

**THAM02C - Acting III**

- demonstrate a basic ability to modulate performance based on physical space and theatrical style.
- demonstrate the basic ability to articulate a critical analysis of peer and own performances.
- demonstrate the ability to perform scenes utilizing more advanced techniques including the uses of props and costumes.
- demonstrate an advanced level of script and performance analysis and be able to articulate detailed psychological motivations.

**THAM02D - Acting IV**

- demonstrate an advanced ability to adjust performance based on physical space and theatrical style.
- demonstrate the ability to perform scenes utilizing advanced performance techniques focusing on collaboration with another actor.
- understand an advanced level of script analysis and utilize psychological motivations in scenes of a significant length.

### THAM03A - Voice and Diction I

- interpret a one to three minute vocal performance demonstrating variations in pitch, volume, rate, vocal quality, and phrasing.
- analyze vocal performances for clarity, vocal variety, and use of phrasing.
- describe the human vocal system, including its physiological components and the mechanics of speech and voice production.
- demonstrate a practical regimen of vocal warm-ups and maintenance.

### THAM03B - Voice and Diction II

- interpret a one to three minute vocal performance demonstrating variations in pitch, volume, rate, vocal quality, and phrasing at an intermediate and advanced level.
- analyze vocal performances for clarity, vocal variety, and use of phrasing.
- describe the human vocal system, including its physiological components and the mechanics of speech and voice production.
- demonstrate a practical regimen of vocal warm-ups and maintenance at an intermediate to advanced level.

### THAM04 - History of the Theatre

- observe theatrical performances in an informed and critical manner to analyze the historical, social and political relevance of the piece.
- demonstrate an understanding of the history of theatre and its cultural, social and political influences from the Greeks to the twentieth century.

### THAM04H - Honors: History of Theatre

- demonstrate an understanding of the history of theatre and its cultural, social and political influences from the Greeks to the twentieth century.
- utilize skills in dramatic criticism to illustrate a world view of classical and contemporary dramatic literature.
- observe theatrical performances in an informed and critical manner to analyze the historical, social and political relevance of the piece.

### THAM07 - Audio Production

- understand basic function and terminology of the physics of sound as it applies to audio production.
- demonstrate the ability to differentiate between diverse broadcast and live environments and articulate audio solutions for each.
- utilize various technologies to produce, record, sync and mix digital and/or analog audio for application in live and recorded environments.

### THAM08 - Script Analysis

- investigate a play as it exists on the page and as it is realized in production.
- appraise a written play and its cultural, social, and political influences with a focus on social justice, race/ethnicity, gender, class, sexual orientation, and ability.

### THAM09A - Acting for Film & Television I

- demonstrate a basic ability to create a character on camera through the completion of several projects including but not limited to scenes, commercial copy, industrials, and monologues.
- demonstrate introductory level skills in performance modulation by making adjustments, both physical and vocal, for performing in a one camera environment.
- utilize the vocabulary specific to the technology required for acting on the camera and/or the specific techniques required for performing in a one or three camera scene

### THAM09B - Acting/Film & Television II

- demonstrate an intermediate ability to create a character on camera through the completion of several projects including but not limited to scenes, commercial copy, industrials, and monologues.
- demonstrate intermediate level skills in performance modulation by making adjustments, both physical and vocal, for performing in a one camera environment.
- utilize the vocabulary specific to the technology required for acting on the camera and/or the specific techniques required for performing in a one or three camera at an intermediate level

### THAM09C - Acting/Film & Television III

- demonstrate an intermediate to advanced ability to create a character on camera through the completion of several projects including but not limited to scenes, commercial copy, industrials, and monologues.

- demonstrate intermediate to advanced level skills in performance modulation by making adjustments, both physical and vocal, for performing in a one camera environment.
- utilize the vocabulary specific to the technology required for acting on the camera and/or the specific techniques required for performing in a one or three camera at an intermediate to advanced level

#### THAM09D - Acting/Film & Television IV

- demonstrate an advanced ability to create a character on camera through the completion of several projects including but not limited to scenes, commercial copy, industrials, and monologues.
- demonstrate advanced level skills in performance modulation by making adjustments, both physical and vocal, for performing in a one camera environment.
- utilize the vocabulary specific to the technology required for acting on the camera and/or the specific techniques required for performing in a one or three camera at an advanced level

#### THAM10A - Theatre Production: Perform I

- demonstrate the ability to utilize costumes and make-up to develop characters in performance.
- demonstrate the ability to collaborate with a director and other performers in a live performance.
- utilize script analysis skills to interpret diverse texts from various styles, periods and cultures to develop a character in live performance.
- utilize specific vocal and physical techniques to develop characters in a live performance.

#### THAM10B - Theatre Production: Perform II

- demonstrate an introductory to intermediate ability to utilize costumes and make-up to develop characters in performance.
- demonstrate an introductory to intermediate ability to collaborate with a director and other performers in a live performance.
- utilize introductory to intermediate script analysis skills to interpret texts to develop a character in live performance.
- utilize introductory to intermediate vocal and physical techniques to develop characters in a live performance.

#### THAM10C - Theatre Prod: Perform III

- demonstrate intermediate to advanced ability to utilize costumes, make-up and props and work with sets, lights, audio equipment, projections and or puppetry to develop character in performance.
- demonstrate intermediate to advanced ability to collaborate with a director and other performers in a live performance.
- utilize intermediate to advanced script analysis skills to interpret texts to develop a character in live performance.
- utilize intermediate to advanced vocal and physical techniques to develop characters in a live performance.

#### THAM10D - Theatre Prod: Perform IV

- demonstrate advanced ability to utilize costumes, make-up and props and work with sets, lights, audio equipment, projections and or puppetry to develop character in performance.
- demonstrate advanced ability to collaborate with a director and other performers in a live performance.
- utilize advanced script analysis skills to interpret texts to develop a character in live performance.
- utilize advanced vocal and physical techniques to develop characters in a live performance.

#### THAM14A - Improvisational Comedy I

- utilize introductory scene analysis and improvisation skills to write comedic sketches and monologues for performance.
- demonstrate the introductory ability to adjust performance techniques based on oral and written critiques from instructor and peers.
- demonstrate the introductory ability to improvise short and long form scenes based on class based techniques and exercises in a live performance.

#### THAM14B - Improvisational Comedy II

- utilize intermediate scene analysis and improvisation skills to write comedic sketches and monologues for performance.
- demonstrate the intermediate ability to adjust performance techniques based on oral and written critiques from instructor and peers.
- demonstrate the intermediate ability to improvise short and long form scenes based on class based techniques and exercises in a live performance.

#### THAM14C - Improvisational Comedy III

- utilize intermediate to advanced scene analysis and improvisation skills to write comedic sketches and monologues for performance.
- demonstrate the intermediate to advanced ability to adjust performance techniques based on oral and written critiques from instructor and peers.
- demonstrate the intermediate to advanced ability to improvise short and long form scenes based on class based techniques and exercises in a live performance.

**THAM14D - Improvisational Comedy IV**

- utilize advanced scene analysis and improvisation skills to write comedic sketches and monologues for performance.
- demonstrate the advanced ability to adjust performance techniques based on oral and written critiques from instructor and peers.
- demonstrate the advanced ability to improvise short and long form scenes based on class based techniques and exercises in a live performance.

**THAM15A - Stage Direction I**

- demonstrate the ability to utilize introductory level skills to bring a scene or play to production.
- demonstrate the organizational requirements of pre-production.

**THAM15B - Stage Direction II**

- demonstrate the ability to utilize intermediate level skills to bring a scene or play to production.
- demonstrate the organizational requirements of pre-production for a one act play.

**THAM18 - Auditioning Techniques**

- demonstrate in live and videotaped performances the ability to audition at industry standards.
- demonstrate the ability to compile professional resume, interview and audition materials based on industry marketing and trade analysis.
- utilize script analysis skills to interpret scripted material.

**THAM21A - Playwriting I**

- demonstrate basic understanding of character development, plot, and theme through the writing of a monologue or scene.
- utilize script analysis skills to explore the basic tenants of structure, character development and theme in published and original works.

**THAM21B - Playwriting II**

- create a short 10-20 minute play that demonstrates advanced knowledge of theme, plot, conflict, climax, and character development.
- utilize script analysis skills to explore the advanced tenants of structure, character development and theme in published and original works.

**THAM30 - Puppetry Design & Performance**

- describe basic types of puppets and demonstrate the ability to utilize them in a performance.
- demonstrate the ability to create various types of puppets utilizing costumes and/or wig.

**THAM52A - Theatre for Young Audiences I**

- utilize vocal and physical performance techniques to interpret a children's theatre text in live performance.
- demonstrate the ability to integrate technical elements into performance.
- utilize script analysis skills to explore the advanced tenants of structure, character development and theme.

**THAM52B - Theatre for Young Audiences II**

- utilize intermediate script analysis skills to explore the advanced tenants of structure, character development and theme.
- demonstrate the intermediate ability to integrate technical elements into performance.
- utilize intermediate vocal and physical performance techniques to interpret a children's theatre text in live performance.

**THAM80 - Internship in Theatre Arts**

- Appraise and evaluate the occupational work experience situation as it applies to the student's educational or occupational goals (major or career) in written or verbal format in the form of a paper, project, or presentation.

**THAM122 - Ind. Study - Theatre Arts**

- apply the knowledge acquired to other aspects of Theatre Arts.

**ATZ, EATM, Health & Life Sciences****Anatomy****CLO**

ANATM01 - Human Anatomy

- identify key structures of the human body and correlate the relationship between form and function of these structures.

### ANATM122 - Independent Study - Anatomy

- demonstrate a deeper understanding of the anatomy discipline as specifically determined in the student-developed learning objectives in consultation with the instructor.

### Anatomy/Physiology

#### CLO

#### ANPHM01 - Human Anatomy & Physiology

- classify system parts structurally and functionally.
- relate the structure of the human body to the functioning of the systems.

### Animal Care and Training

#### CLO

No CLOs

### Animal Science

#### CLO

#### ANSCM09 - Animal Behavior

- explain the concepts and issues pertaining to the development and control of behavior, evolution of behavior, behavioral ecology, social organization, communication, and animal intelligence.
- demonstrate their ability to apply concepts including learning theory, behavioral enrichment, and applied animal behavior to the management of animals under professional care

#### ANSCM09L - Animal Behavior Lab

- demonstrate at least 70% proficiency in laboratory exercises in applying operant conditioning principles to the training of a rat.
- demonstrate an understanding of methods for conducting scientific observations of live animals under professional care.

#### ANSCM17 - Animal Diversity

- Demonstrate ability to describe the characteristics of the major phyla of invertebrates and the classes of vertebrates as well as the major orders and families of the tetrapods.
- Demonstrate ability to recognize and identify by common name, scientific name, phylum, class, order, and family a wide variety of animal species including invertebrates, fish, amphibians, reptiles, birds, and mammals.

### Anthropology

#### CLO

#### ANTHM01 - Biological Anthropology

- recognize the four subfields of anthropology, with an emphasis on biological anthropology, and describe the scientific method.
- describe the biological basis for human evolution, in terms of evolutionary theory, primate studies, and the human fossil record.

#### ANTHM01H - Honors:Biological Anthropology

- understand the biological basis for human evolution, in terms of evolutionary theory, primate studies, and the human fossil record.

#### ANTHM01L - Biological Anthropology Lab

- identify the biological basis for human evolution, in terms of evolutionary theory, primate studies, and the human fossil record, and demonstrate these understandings through laboratory practicums.
- analyze and discuss the relevance of biological anthropology for analyzing contemporary questions (e.g., why some individuals are more susceptible to a disease than others, the genetic basis of traits such as height, weight, etc.).

#### ANTHM02 - Cultural Anthropology

- identify and apply key anthropological perspectives, theories, and concepts.
- develop appreciation of the diverse ways of life of human groups around the world.
- explain how anthropologists define, study, and compare culture and its interconnected components.

#### ANTHM03 - Archaeology

- utilize the scientific methods used in archaeology and be able to compare strategies used to design a research project that includes the survey, mapping, excavation and processing of artifacts from an archaeological site.

- describe the history of archaeology, its major goals and theories, its most famous discoveries, its place within anthropology and academia, and compare and critique their own life experiences with those of people from past societies.

#### **ANTHM05 - Archaeological Field Methods**

- apply archaeological excavation methods and techniques in a real-world situation.

#### **ANTHM06 - Intro. Native American Studies**

- identify exemplary cultural traditions/periods, sites, and artifacts in the North American geographic/archaeology regions.
- analyze common and/or divergent viewpoints held by Native Americans and anthropologists relative to cultural knowledge about the environment, federal law, and the human role globally.

#### **ANTHM07 - Peoples/Cultures of the World**

- use holistic and cultural relativistic perspectives to analyze cultural ideologies and practices, including their own.
- describe the ethics, methods, and major theories behind ethnographic research and writing.
- develop a global, comparative view of the diversity of human cultural practices as well as a historically informed view of cultural adaptation and present day cultural change.

#### **ANTHM08 - Linguistic Anthropology**

- recognize the four fields of anthropology, with an emphasis on linguistic anthropology, and appraise the contributions each can make when investigating human language and formulating ideas about the origins of the human ability to use language.
- describe and analyze the relationship between culture and language, and to appraise the ways that their own use of language communicates their understandings of themselves and their culture.

#### **ANTHM09 - Sex, Gender, and Culture**

- explain the intersectionalities of gender, sexuality, race, ethnicity, religion, politics, and economics in human cultures and critically analyze the ways in which our behaviors and understandings of gender and sexuality are shaped by our biology, culture, society, and changing global environment.
- define and apply key anthropological perspectives, theories, and concepts related to gendered experience and sexuality.
- express appreciation of diverse gender ideologies, identities, relations, and sexualities.

#### **ANTHM10 - Archaeological Survey & Map.**

- demonstrate archaeological mapping and survey techniques, including use of compass, GPS, USGS maps, and the associated proper recording methods at a variety of archaeological sites.

#### **ANTHM11 - Magic/Witchcraft/Religion**

- describe and evaluate the ways in which belief systems represent adaptive responses to both historical events and human biological, psychological, and social needs.
- describe and examine their own belief systems and consider the reasons why these are both similar and different to the belief systems of other people around the world.

#### **ANTHM12 - Archaeological Lab Procedures**

- use correct archaeological laboratory methods in the analysis of archaeological artifacts, and appreciate the process of cleaning, sorting, labeling, and preparing artifacts for long-term storage to support research.

#### **ANTHM13 - Chumash: Indians of California**

- recognize the value of a culturally relativistic approach to the comparison of diverse California Native cultures to European cultures as reflected in colonization experiences and the resulting bias that lingers today.
- analyze the relationship between the diverse environmental subregions of California and the diverse traditional cultures of California.

#### **ANTHM14 - Monkeys, Apes, and Humans**

- analyze potential causes and consequences of behavioral variation among primates.

#### **ANTHM15 - Egyptology: Arch-Pharaohs**

- describe the scope of ancient Egyptian prehistory from an anthropological and archaeological perspective, including Egyptian religion, dynasties, kingdoms, famous individuals, and important historic moments such as the 18th Dynasty, the Greek Period, and the discovery of King Tut.

#### **ANTHM16 - Mysteries of the Ancient Maya**

- interpret and debate the broad history of the ancient Maya people from an anthropological and archaeological perspective.

#### **ANTHM17 - Forensic Anthropology**

- determine the various techniques used in determining sex, age, and ancestry from human skeletal remains.
- assess different types of ante-, peri-, and postmortem changes to bone, including pathology, trauma, and natural anomalies.

- assess the forensic context and describe the laboratory and recovery procedures involved in forensic anthropology casework.
- explore the application of standard, scientific, anthropological techniques to identify human remains and to assist in the detection of a crime.

### ANTHM18 - Culture, Health, and Healing

- discuss a range of theoretical approaches, including interpretive, biocultural, ecological, political-economic, and phenomenological approaches.
- evaluate current social science methodologies and research ethics with special attention to anthropological fieldwork
- assess the diversity of human responses to illness, how these responses have and are changing, and the array of factors shaping health disparities.
- evaluate the applications of anthropological concepts to health and medical fields.

### ANTHM19 - Professionalism and CRM

- explain and apply a working knowledge of the professional standards of Cultural Resource Management (CRM) including project budgets, fieldwork phases, and final written reports.
- explain and apply federal and state laws and regulations to case studies or scenarios in archaeology.

### ANTHM80 - Intern. in Anthropology

- demonstrate contemporary and relevant work experience in the field

### ANTHM122 - Independent Study-Anthropology

- Specific outcomes will depend upon the topics developed. Because Anthropology is a broad discipline concerned with both natural and social science topics, and because of its interest in (pre)history, any of the Institutional Learning Outcomes could be met with the appropriate topic.

## Biology

### CLO

#### BIOLM01 - Introduction to Biology

- demonstrate an understanding of molecular biology and the workings of DNA.

#### BIOLM02A - General Biology I

- critically analyze data and interpret results from experiments throughout the course
- describe how evolutionary principles provide a comprehensive model for understanding the origins and relationships of living organisms.

#### BIOLM02AH - Honors: General Biology I

- analyze data and interpret results from experiments throughout the course
- explain how evolutionary principles provide a comprehensive model for understanding the origins and relationships of living organisms.

#### BIOLM02B - General Biology II

- describe the cladistics of organisms, their life cycles, natural history and evolutionary trends using evolution by natural selection as the unifying concept.

#### BIOLM02BH - Honors: General Biology II

- describe the cladistics of organisms, their life cycles, natural history and evolutionary trends using evolution by natural selection as the unifying concept.

#### BIOLM02C - Genetics and Molecular Biology

- elucidate the role different cell signaling pathways play in regulating cellular activity.
- describe how genes are regulated in viruses, bacteria and eukaryotes.
- relate the structure of DNA to its function in replication and protein synthesis.
- analyze experimental data and determine Mendelian inheritance patterns.

#### BIOLM03 - Marine Life & Its Environment

- give examples of how humans impact the marine environment.
- demonstrate knowledge of the cladistics and phylogenies of marine organisms, their life cycles, natural history, and evolutionary trends which are observed using evolution by natural selection and unique marine selective agents as the unifying concept.

#### BIOLM05 - Field Biol: Natural Hist Calif

- identify and describe organisms and communities within the state of California and relate adaptations of organisms to their environments.

**BIOLM06 - Ecology**

- explain how humans positively and negatively impact the environment
- demonstrate knowledge of the ecological and evolutionary connectedness of living organisms

**BIOLM12A - Envir Control/Process Support**

- demonstrate the important skills necessary to support the operation of a biotech manufacturing plant.
- identify ALL five critical behaviors necessary to work in clean rooms.

**BIOLM12B - Manufact:Qual Cont/Validation**

- demonstrate the concepts of systems validation.
- demonstrate the concepts of Quality Control (QC).

**BIOLM12C - Cell Culture/Microbial Ferment**

- produce healthy cultured mammalian cells in a spinner flask and will verify and critique their success through high cell count and viability.

**BIOLM12D - Bioprocess:Recovery & Purif**

- use chromatography techniques to successfully purify a candidate protein from a mixture of proteins.
- use tangential flow filtration to concentrate a batch of proteins.

**BIOLM12E - Business & Govern. Regulation**

- identify the requirements of the regulatory process involved in therapeutic drug development.
- apply the concepts of regulatory processes to the operations of a drug manufacturing plant.

**BIOLM13 - Introduction to Biotechnology**

- discern between relevant versus irrelevant evidence to evaluate a scientific question.
- formulate an appropriate hypothesis to explain provided and/or acquired observations.
- distinguish between experiments to determine which ones lead to an appropriate conclusion based on provided and/or acquired scientific data.

**BIOLM16 - Human Biology**

- demonstrate an understanding of the basic laws of genetics as they apply to human inheritance.
- relate the structure of the human body to the functioning of the systems and classify system parts structurally and functionally.

**BIOLM16L - Human Biology Lab**

- utilize the scientific method to perform a scientific inquiry.
- identify the major organ systems and discuss their basic structure and function.

**BIOLM17 - Heredity, Evolution & Society**

- demonstrate an understanding of the basic laws of genetics as they apply to human inheritance.
- analyze concepts in both written and spoken forms.

**BIOLM18 - Human Biology for Pre-Allied**

- communicate using medical terminology related to allied health professions

**BIOLM50A - Bridge to Biotechnology**

- design and complete a scientific experiment utilizing biotechnology techniques.

**BIOLM80 - Internship in Biology**

- demonstrate contemporary and relevant work experience in the field of biology.
- summarize the outcomes of the internship in the form of a project, oral report, or written communication.

**BIOLM122 - Independent Study - Biology**

- demonstrate a deeper understanding of the biology discipline as specifically determined in the student-developed learning objectives in consultation with the instructor.

**Biotechnology****CLO****BIOTM02A - Envir Control/Process Support**

- demonstrate the important skills necessary to support the operation of a biotech manufacturing plant.
- identify ALL 5 critical behaviors necessary to work in clean rooms.

**BIOTM02B - Manufact:Qual Cont/Validation**

- demonstrate the concepts of systems validation.
- demonstrate the concepts of Quality Control (QC).

**BIOTM02C - Cell Culture/Microbial Ferment**

- produce healthy cultured mammalian cells in a spinner flask and will verify and critique the success of cell cultures through high cell count and viability.

**BIOTM02D - Bioprocess:Recovery & Purif**

- use chromatography techniques to successfully purify a candidate protein from a mixture of proteins.
- use tangential flow filtration to concentrate a batch of proteins.

**BIOTM02E - Business & Govern. Regulation**

- identify the requirements of the regulatory process involved in therapeutic drug development.
- apply the concepts of regulatory processes to the operations of a drug manufacturing plant.

**BIOTM10 - Introduction to Biotechnology**

- discern between relevant versus irrelevant evidence to evaluate a scientific question.
- formulate an appropriate hypothesis to explain provided and/or acquired observations.
- distinguish between experiments to determine which ones lead to an appropriate conclusion based on provided and/or acquired scientific data.

**BIOTM50A - Bridge to Biotechnology**

- design and complete a scientific experiment utilizing biotechnology techniques.

**BIOTM80 - Internship in Biotechnology**

- Develop on-the-job learning objectives that demonstrate new and expanded learning at the work site that directly relate to the student's educational or occupational goal (major or career).
- Demonstrate successful workplace human dynamics, which may include: working as part of a team, following implicit and explicit instructions including company policies and procedures, and practicing work ethics.
- Demonstrate appropriate work skills such as communication, problem solving, decision making, teamwork, self-management, initiative, and/or technical skills that are gained as a result of new and expanded learning at the worksite.
- Organize and maintain occupational work experience records, including time sheets, a consultation record, and learning objective proposals, evaluation, and documentation.
- Appraise and evaluate the occupational work experience situation as it applies to the student's educational or occupational goals (major or career) in written or verbal format in the form of a paper, project, or presentation.

**BIOTM301 - Biomfg Process Sciences**

- apply process development strategies used for protein product recovery and purification and create a design for an approach to scale-up the process.
- develop a process to evaluate mass transfer within a bioreactor and develop a process control strategy to improve mass transfer.
- develop process development strategies that lead to the design of a process to grow cells in a bioreactor with parameters that yield the maximum cell density and the maximum protein concentration. Process development will include cell line development, medium optimization, and bioreactor parameters.

**BIOTM302 - Design Expts Biomanufacturing**

- apply Design of Experiment approaches to optimize the growth of cells in a bioreactor.
- create an experimental design using Design of Experiment approaches for protein recovery and purification specifically related to the choice of chromatography resins and binding and elution buffers.
- create an experimental design using Design of Experiment approaches related to protein recovery, the bulk separation of proteins from other cellular components.

**BIOTM303 - Design Biomfg Facilities**

- analyze the design of a piece of biomanufacturing equipment, critique the design by pointing out the engineering compromises that were made during the design process (because of cost considerations as an example), and create a new design.
- apply standard design principles used in the construction of a biomanufacturing plant to create a design for a facility with an upstream and downstream component that maintains appropriate levels of cleanliness and sterility through one-way personnel flow and one-way material flow.
- create a design for a system that provides a critical utility to a biomanufacturing plant.

**BIOTM304 - Bioprocess monitoring ctrl**

- construct a process control chart that evaluates and demonstrates whether a process is in a state of control.
- create a design for a monitoring and control system for a measured bioreactor parameter that maintains that parameter at a constant level.
- evaluate a process and use that analysis to identify critical control points within that process.

**BIOTM307 - Adv Tpcs in QA and Reg Affairs**

- analyze primary documents from the International Council for Harmonisation (e. g. ICH 8, ICH 9, and ICH 10) and evaluate how the basic science that governs the manufacturing of protein pharmaceuticals lead to the design of these regulations.
- compare and contrast the laws and regulations governing pharmaceutical manufacturing of different countries and analyze how effectively the International Committee on Harmonisation has resolved the differences.
- demonstrate knowledge of the Body of Knowledge (QBOK) required to pass the Certified Quality Improvement Associate (CQIA) exam administered by the American Society for Quality (ASQ). Delete Comment
- develop a regulatory strategy for a protein pharmaceutical with a Quality by Design (QbD) approach.

**BIOTM405 - Cell & Gene Ther. Mfg. Tech.**

- compare and contrast advantages and disadvantages of autologous and allogeneic cell therapy manufacturing.
- describe at least three unique features of a cell and gene therapy manufacturing facility.
- identify three differences between equipment used in traditional biomanufacturing and that used in cell and gene therapy manufacturing.

**BIOTM406 - Supp Chain & Ent Res Planning**

- appraise and value the operations coherence and process control offered by an enterprise resource management system.
- create a design for a supply chain for a manufacturing process that includes raw material management, personnel resources management, and inventory management using enterprise resource planning software.
- demonstrate knowledge of raw material management, personnel resources management, and inventory management required for obtaining CPIM certification (Certified in Production and Inventory Management) on the certification test administered by APICS (the American Production and Inventory Control Society).
- design a master schedule that disaggregates a production plan into an executable schedule.

**BIOTM408 - Six Sigma & Lean Manufacturing**

- analyze and evaluate a manufacturing process for its "quality by design" features, identify any engineering compromises that have been made and develop a strategy to improve output quality using Six Sigma manufacturing principles.
- apply lean manufacturing and Six Sigma principles to critique the design of a manufacturing process and create a method for improvement.

**BIOTM409 - Meth Qual Imp, Invst, & Audits**

- apply statistical techniques to the examination of quality.
- assess the principles of metrology and calibration within the context of product and process quality.
- perform an investigation that requires them to analyze an Out of Specification (OOS) deviation that occurred during a production step in the manufacture of a pharmaceutical protein. At the end of their investigation and analysis, they will be able to judge whether the variation was severe enough to (a) justify the rejection of that batch, or (b) require additional analysis, or (c) allow the batch to be released to patients.

**BIOTM410 - Emrg Trnds in Biomfg Quality**

- analyze and evaluate the impact of national and international regulation on biomanufactured products in a global marketplace.
- appraise the types of biomanufactured products and the varying impact of quality considerations and regulation on the operations to manufacture these products.
- assess the fundamental product attributes of safety and efficacy and understand how they are measured and communicated by the various stakeholders: producer, regulator, and consumer.

Botany

**CLO****BOTM01 - Introduction to Botany**

- recognize the evolutionary relationships among the major groups of plants and their impact on the earth.

**BOTM06 - Plants and Society**

- analyze concepts in both written and spoken forms.
- describe the basic processes that are utilized in the preparation of plant products for human uses such as distillation, dyeing, fermentation, malting and saponification.
- distinguish between the major groups of macromolecules that are important to human nutrition.
- identify the types of tissues that make up the vegetative portion of the plant body.
- determine what structures are of economic importance in particular plants, and describe how these structures have been modified to render them more useful for utilization by humans.
- recognize the major structural components of flowering plants.

**BOTM122 - Independent Study - Botany**

- demonstrate a deeper understanding of the biology discipline as specifically determined in the student-developed learning objectives in consultation with the instructor.

**Emergency Medical Technology****CLO****EMTM01 - Emergency Medical Technician**

- successfully complete the Emergency Medical Technician theory content.
- formulate and/or discuss competent pre-hospital care within the scope of practice of an EMT-Basic at the scene of an emergency, during the transport of the patient, and during an inter-facility transfer.
- develop and discuss a plan for appropriate pre-hospital care based on patient needs and scene circumstances.

**EMTM01L - Emergency Medical Tech. Lab**

- successfully complete the Emergency Medical Technician (EMT) skills.
- formulate and / or discuss competent pre-hospital care within the scope of practice of an EMT-Basic at the scene of an emergency, during the transport of the patient, and during an inter-facility transfer.
- develop and discuss a plan for appropriate pre-hospital care based on patient needs and scene circumstances.

**EMTM04 - EMT-Refresher**

- develop and discuss a plan for appropriate prehospital care based on patient needs and scene circumstances.
- demonstrate skills for addressing a variety of simulated medical and trauma emergencies.

**EMTM05 - Emergency Medical Responder**

- demonstrate the immediate basic life support and interim medical care for a sick, injured, or compromised person until advanced medical care is provided or transport is initiated.
- evaluate safety procedures and protocols associated with local, state, and federal regulations in order to effectively and safely conduct duties within fire and emergency services.
- combine a variety of appropriate and effective methods of communicating with the public, including techniques such as professional demeanor, active listening, empathy, projecting a confident tone of voice, paraphrasing, and the proper use of nonverbal body language.

**Exotic Animal Training Mgmt****CLO****EATMM01A - Animal Care & Handling I**

- describe skills needed for basic zookeeping practices
- describe safety and emergency protocols in the Teaching Zoo.

**EATMM01AL - Animal Care & Handling Lab I**

- demonstrate the ability to perform animal-care protocols
- demonstrate the ability to correctly prepare one or more animal diets.

**EATMM01B - Animal Care & Handling II**

- describe skills for managing non-domestic and domestic animals under professional care.
- identify specific stressors for an animal caretaker, including euthanasia and grieving, and methods to handle these matters to prevent job "burn-out."

#### **EATMM01BL - Animal Care & Handling Lab II**

- demonstrate the ability to work independently while following area protocols in the zoo.
- demonstrate the ability to shift large carnivores correctly and safely.

#### **EATMM02A - Zoo Work Skills First Yr Fall**

- perform safety rounds according to Teaching Zoo's guidelines
- demonstrate proper handling techniques for small mammals.

#### **EATMM02C - Zoo Work Skills First Yr Spr**

- apply knowledge of zoo operations to a managerial role.
- demonstrate technical skills to care for and correctly handle assigned animals according to protocols.

#### **EATMM02D - Zoo Work Skills Second Yr Sum**

- identify or demonstrate appropriate response to an injury emergency drill at Teaching Zoo.
- evaluate and design protocols for zoo keeping and animal care.

#### **EATMM02E - Zoo Work Skills Second Yr-Fall**

- work as a team to maintain assigned animal area in the zoo following USDA standards.
- maintain husbandry behaviors of assigned animals.

#### **EATMM02F - Zoo Work Skills Second Year-Sp**

- demonstrate to assigned first year students how to handle an animal in a show.
- demonstrate entry level job skills for zoo keeping.

#### **EATMM02G - Animal Care Skills Review**

- demonstrate technical skills to care for and correctly handle assigned animals according to protocols.
- demonstrate the ability to independently perform a safety round in the zoo.

#### **EATMM08 - Applied Wildlife Conservation**

- describe current issues in wildlife conservation.
- explain the interdependence of living species in the natural world.

#### **EATMM09 - Animal Behavior**

- explain the concepts and issues pertaining to the development and control of behavior, evolution of behavior, behavioral ecology, social organization, communication, and animal intelligence.
- demonstrate their ability to apply concepts including learning theory, behavioral enrichment, and applied animal behavior to the management of animals under professional care

#### **EATMM09L - Animal Behavior Lab**

- demonstrate operant conditioning principles to the training of a rat.
- demonstrate methods for conducting scientific observations of live animals under professional care.

#### **EATMM12 - Anatomy & Physiology Mammals**

- identify, describe (with proper nomenclature) the function and relationships of the basic anatomy and physiology of normal mammals.
- describe systems, parts, and positions with anatomical terminology

#### **EATMM14A - Projects I**

- demonstrate job entry level skills at an animal related facility
- demonstrate understanding of USDA standards.

#### **EATMM14B - Projects II**

- demonstrate entry level skills for a zookeeper, handler or educator.
- demonstrate understanding of animal behavior.

**EATMM15A - Wildlife Education I**

- describe various interpretation techniques used for environmental education.
- describe appropriate content for different age groups

**EATMM15AL - Wildlife Education I Lab**

- demonstrate safety skills needed for giving presentations with live animals.
- apply three interpretive techniques with an audience.

**EATMM15B - Wildlife Education II**

- discuss the importance of environmental education programs in meeting a zoo or aquarium's educational mission.
- demonstrate proper usage of current terminology in the professional field

**EATMM15BL - Wildlife Education II Lab**

- conduct an educational themed presentation using live animals safely for a variety of audience types.
- conduct guided tours of the Teaching Zoo for a variety of audience types

**EATMM15CL - Wildlife Education III Lab**

- create, develop, and perform an educational presentation with live animals, a script and characters.
- interpret zoo exhibits, animals, and conservation messaging to the zoo guests.

**EATMM15D - Wildlife Education IV**

- demonstrate an understanding of the logistical challenges required to transport animals to remote locations
- demonstrate the ability to adapt wildlife programs to suit various audiences

**EATMM15DL - Wildlife Education IV Lab**

- create and demonstrate a conservation oriented public program for various ages and audience types at 70% competency.
- create an outreach packet with script that details a 30 minute program and present the potential program in a presentation

**EATMM15EL - Wildlife Ed Spring Spec Lab**

- collaborate with a team on developing and performing a scripted show.
- display advanced training strategies and safe handling practices with assigned animals.

**EATMM15FL - Wildlife Interpretation**

- demonstrate the ability to write a thematic interpretive program outline.
- demonstrate the skills to meet the requirements for NAI interpretive certificate.

**EATMM17 - Animal Diversity**

- demonstrate ability to describe the characteristics of the major phyla of invertebrates and the classes of vertebrates as well as the major orders and families of the tetrapods.
- demonstrate ability to recognize and identify by common name, scientific name, phylum, class, order, and family, a wide variety of animal species including invertebrates, fish, amphibians, reptiles, birds and mammals.

**EATMM18 - Animal Health and Safety**

- demonstrate understanding of zoonotic diseases and prevention and safety risks that animal handlers are likely to be exposed to.
- describe the procedures and safety protocols that are required in an occupational health program for animal caretakers.

**EATMM19 - Animal Nutrition**

- identify proper sanitation and food preparation that meet regulatory standards.
- identify and explain the principles of an effective nourishment program, including record keeping.

**EATMM21A - Animal Training I**

- explain the use of operant conditioning to shape and maintain the behavior of animals.
- describe the various factors which influence training success.

**EATMM21AL - Animal Training I Lab**

- apply operant conditioning principles to the training of one or more animals at the teaching zoo.

- develop an animal training plan.

### EATMM21B - Animal Training II

- describe techniques used in husbandry training.
- explain how trust is developed with an animal under professional care.

### EATMM21BL - Animal Training II Lab

- train one or more husbandry behaviors to two or more animals at the teaching zoo.
- desensitize an animal to an aversive stimulus.

### EATMM21C - Animal Training III

- describe the field of animal behavior management including problem-solving methodologies and management of aggression.
- explain advanced animal training issues including studio animal training and constructional approach.

### EATMM21P - Animal Training Practicum

- modify an animal's behavior through the application of operant conditioning techniques.
- desensitize an animal to an aversive stimulus.

### EATMM23A - Elementary Veterinary Care I

- demonstrate basic veterinary care including symptoms, diagnostic tests, and treatments of common animal diseases and principles of safety and prevention.
- use appropriate terminology to describe the anatomy, physiology, and disease processes of animals.

### EATMM23AL - Element. Veterinary Care I Lab

- describe basic veterinary procedures utilized by an animal caretaker.
- practice the methods of wound care and bandaging successfully apply a variety of bandages to animals.

### EATMM23B - Elementary Veterinary Care II

- identify terminology and causes muscular diseases in domestic and wild animals
- identify and discuss diseases of the digestive system in animals.

### EATMM24 - Avian and Herptile Care

- apply husbandry and handling techniques for birds and herptiles to prevent illness and injury.
- access resources to find specialized veterinary care for birds and herptiles, and act appropriately in a medical emergency.

### EATMM26 - Applied Primate Behavior

- demonstrate basic concepts of primate behavior with applications to training and caring for primates under professional care.
- explain techniques for providing environmental enrichment of primates.

### EATMM26L - Applied Primate Behavior Lab

- design possible enrichment to reduce abnormal behavior in primates under human care.
- demonstrate operant conditioning techniques to train and care for primates safely and humanely.

### EATMM27 - Animal Ethical & Legal Issues

- discuss and address, from a factual perspective, current ethical issues facing the animal industry.
- demonstrate the ability to quantify the welfare of specific animals under their care using established measuring techniques currently established in the professional animal industry

### EATMM30A - Zoo Days I

- demonstrate safety skills in the care and management of animals in a zoo.
- demonstrate ability to clean and feed a variety of strings at the zoo, in accordance with USDA regulations.

### EATMM30B - Zoo Days II

- analyze emergency procedures in accordance with Los Angeles Zoo policy
- demonstrate ability to clean and feed a wide variety of zoo animals, in accordance with US Department of Agriculture (USDA) regulations and facility policy.

### EATMM34 - Practical Résumés Animal Prof

- produce a resume suitable for a position in the animal-care industry.
- produce a cover letter suitable for an animal-care industry position.

#### EATMM36 - Eff Interviews Animal Prof

- produce an interview plan with an evaluation.
- perform in a mock interview.

#### EATMM80 - Internship in EATM

- demonstrate contemporary and relevant work experience in the field

#### EATMM101 - Introduction to Animal Science

- compare and contrast animal-related industries on a regional, national and global level and analyze them in a legal and political context.
- compare and contrast specie and breed differences in such critical areas as nutritional requirements, genetics, health, reproduction, animal welfare and general management.
- evaluate and recommend animal enrichment and behavioral management techniques for each of the major livestock species, including poultry.

#### EATMM108 - Animal Care Experience

- demonstrate observational skills regarding animal health and wellness and interpret normal versus abnormal indicators in various species.
- apply principles of routine animal care to a variety of domestic species, including the interpretation of animal behavioral cues, the devising of a safe plan of restraint, and properly administering medication to dogs and cats.
- differentiate between safe and unsafe work practices in a veterinary setting according to the California/Occupational Safety and Health Administration ( Cal/OSHA) standards.

#### EATMM109 - Veterinary Field Work

- demonstrate work-related skills such as time management, team work, reliability, and industriousness.
- demonstrate proficiency in performing skill levels such as Tier I: handling and restraint, Tier II: subcutaneous injections, and Tier III: jugular venipuncture.

#### EATMM122 - Independent Study - EATM

- Specific outcomes will depend upon the topics developed. Geography is a broad discipline concerned with both natural and social science topics.

### Health Sciences

#### CLO

##### HSM15 - Pharmacology

- calculate medication dosages for currently available drugs.
- demonstrate understanding of safe administration of pharmaceutical medication.

##### HSM20 - Health Science Careers

- develop an educational plan consistent with their career pathway.
- demonstrate knowledge of the current status and employment trends of a health care career.

##### HSM23 - Pharm/For Allied Health

- demonstrate the knowledge of basic pharmacological terminology, concepts, and uses for various disease processes and conditions.
- describe the therapeutic action of commonly prescribed drug categories.

##### HSM80 - Internship in Health Sciences

- students will develop effective work habits, attitudes, and career awareness in internships that are related to the health sciences disciplines.

### Microbiology

#### CLO

##### MICRM01 - General Microbiology

- analyze data and interpret results from experiments throughout the course.
- educate the public regarding microbiological principles.

- communicate concepts in both written and spoken forms .

### MICRM122 - Ind. Study - Microbiology

- analyze new information, practices, or research in the Microbiology discipline and utilize those findings in further research or creative projects.

## Nursing Science

### CLO

#### NSM01 - Beginning Nursing Science

- Demonstrate beginning knowledge and theoretical concepts of the five critical competencies of safety/technical skills, critical thinking/clinical reasoning, communication skills, responsibility/accountability, and organization/prioritization skills.
- demonstrate beginning knowledge, skills, and attitudes essential to the function of Registered Nurses in common and emerging healthcare settings.

#### NSM01L - Beginning Nursing Lab I

- demonstrate beginning knowledge, skills, and attitudes essential to the function of Registered Nurses in common and emerging healthcare settings.

- demonstrate beginning knowledge and theoretical concepts of the five critical competencies of safety/technical skills, critical thinking/clinical reasoning, communication skills, responsibility/accountability, and organization/prioritization skills.

#### NSM02 - Intermediate Nursing Science I

- 1a. demonstrate intermediate-level knowledge, skills and attitudes essential to the function of Registered Nurses in common and emerging healthcare settings for the pediatric population.
- 1b. demonstrate intermediate-level knowledge, skills and attitudes essential to the function of Registered Nurses in common and emerging healthcare settings for the obstetric population.
- 1c. demonstrate intermediate-level knowledge, skills and attitudes essential to the function of Registered Nurses in common and emerging healthcare settings for the adult medical population.
- 2a. demonstrate intermediate-level knowledge and theoretical concepts of the five critical competencies of safety/technical skills, critical thinking/clinical reasoning, communication skills, responsibility/accountability, and organization/prioritization skills for the pediatric population.
- 2b. demonstrate intermediate-level knowledge and theoretical concepts of the five critical competencies of safety/technical skills, critical thinking/clinical reasoning, communication skills, responsibility/accountability, and organization/prioritization skills for the obstetric population.
- 2c. demonstrate intermediate-level knowledge and theoretical concepts of the five critical competencies of safety/technical skills, critical thinking/clinical reasoning, communication skills, responsibility/accountability, and organization/prioritization skills for the adult medical-surgical population.

#### NSM02L - Intermediate Nursing Lab I

- demonstrate intermediate-level knowledge, skills and attitudes essential to the function of Registered Nurses in common and emerging healthcare settings.
- demonstrate intermediate-level knowledge and theoretical concepts of the five critical competencies of safety/technical skills, critical thinking/clinical reasoning, communication skills, responsibility/accountability, and organization/prioritization skills.

#### NSM03 - Intermed. Nursing Science II

- 1a. Demonstrate the intermediate-advanced knowledge, skills, and attitudes essential to the function of Registered Nurses in common and emerging healthcare settings for the adult medical-surgical population.
- 1b. Demonstrate the knowledge, skills, and attitudes essential to the function of Registered Nurses in common and emerging healthcare settings for the geriatric population.
- 1c. Demonstrate the knowledge, skills, and attitudes essential to the function of Registered Nurses in common and emerging healthcare settings for clients with mental health needs.
- 2a. demonstrate intermediate-advanced knowledge and theoretical concepts of the five critical competencies of safety/technical skills, critical thinking/clinical reasoning, communication skills, responsibility/accountability, and organization/prioritization skills for the adult medical-surgical population.
- 2b. demonstrate knowledge and theoretical concepts of the five critical competencies of safety/technical skills, critical thinking/clinical reasoning, communication skills, responsibility/accountability, and organization/prioritization skills for the geriatric population.
- 2c. demonstrate knowledge and theoretical concepts of the five critical competencies of safety/technical skills, critical thinking/clinical reasoning, communication skills, responsibility/accountability, and organization/prioritization skills for clients with mental health needs.

#### NSM03L - Inter. Nursing Sci. Clinical L

- demonstrate intermediate-advanced knowledge and theoretical concepts of the five critical competencies of safety/technical skills, critical thinking/clinical reasoning, communication skills, responsibility/accountability, and organization/prioritization skills.
- demonstrate the intermediate-advanced knowledge, skills, and attitudes essential to the function of Registered Nurses in common and emerging healthcare settings.

**NSM04 - Advanced Nursing Science**

- demonstrate advanced knowledge, skills, and attitudes essential to the function of Registered Nurses in common and emerging healthcare settings.
- demonstrate advanced knowledge and theoretical concepts of the five critical competencies of safety/technical skills, critical thinking/clinical reasoning, communication skills, responsibility/accountability, and organization/prioritization skills.

**NSM04L - Adv. Nursing Sci. Clinical Lab**

- demonstrate advanced knowledge and theoretical concepts of the five critical competencies of safety/technical skills, critical thinking/clinical reasoning, communication skills, responsibility/accountability, and organization/prioritization skills.
- demonstrate advanced knowledge, skills, and attitudes essential to the function of Registered Nurses in common and emerging healthcare settings.

**NSM05L - Nsg Science Clinical Review**

- demonstrate intermediate-advanced level knowledge and theoretical concepts of the five critical competencies of safety/technical skills, critical thinking/clinical reasoning, communication skills, responsibility/accountability, and organization/prioritization skills.
- demonstrate intermediate-advanced level knowledge, skills, and attitudes essential to the function of Registered Nurses in common and emerging healthcare settings, specifically in the medical-surgical setting.

**NSM10 - Into to Patient Care Skills**

- demonstrate safe, basic knowledge of essential principles and practices of patient care skills.
- describe and demonstrate methods of controlling infection in the health care setting.

**NSM11 - Nursing Skills Laboratory I**

- report if they developed a foundation for fundamental to beginning nursing skills.

**NSM12 - Nursing Skills Laboratory II**

- report if they developed a foundation of intermediate level nursing skills.

**NSM13 - Nursing Skills Laboratory III**

- report if they developed intermediate to advanced level nursing skills.

**NSM14 - Nursing Skills Laboratory IV**

- report if they developed a foundation for advanced, complex nursing skills.

**NSM16 - Study Skills/Nursing Students**

- describe and demonstrate skills that promote success as a nursing student.

**NSM17 - Healthcare Ethics**

- demonstrate competency in ethical decision making.

**NSM18 - Nursing Skills Summer Lab**

- report if they developed a foundation competence in nursing skills.

**NSM19 - Medical Terminology**

- apply defining methods, analyzing, word building, and memorization to understand and communicate medical language.
- apply medical terms and abbreviations in the medical language of each body system.

**NSM20 - Pharmacology**

- correctly calculate medication dosages for currently available drugs.
- demonstrate understanding of safe administration of pharmaceutical medication.

**NSM25 - Basic Pathophysiology**

- demonstrate an understanding of pathophysiology and its effects on the following body systems: neurological, cardiovascular, respiratory, gastrointestinal, genitourinary, endocrine, integumentary, hematological, musculoskeletal, and immunological.

**NSM30 - Basic Cardiac Dysrhythm Interp**

- interpret basic cardiac dysrhythmias correctly and identify related healthcare interventions.

**NSM35 - Holistic Healthcare Practices**

- Identify relaxation strategies which are useful for people in all stages of health and illness.

**NSM40 - Labor & Delivery Room Nursing**

- demonstrate the knowledge and theoretical concepts of the five critical competencies of safety-technical skills, critical thinking and clinical reasoning, communication, responsibility/accountability, and organization/prioritization skills in caring for the intrapartum patient.

#### NSM49 - Nursing Practicum

- work effectively as an intermediate nursing student on a health care team.

#### NSM122 - Independent Study - Nursing

- evaluate their advancement in safety and technical skills or other nursing program critical competencies.

### Nutritional Science

#### CLO

##### NTSM01 - Intro. to Nutrition Science

- utilize a computer database to evaluate a personal diet.
- categorize personal food choices within the various national dietary recommendations.

##### NTSM07 - Cultural Foods

- analyze map of the prevalence of government assistance nutrition programs.
- identify cultural food patterns, values, cultures, traditions, health beliefs, and nutrition practices of various world populations.

##### NTSM09 - Intro to Food Science with Lab

- select, use, and maintain laboratory equipment and utensils appropriately.
- apply the principles of food science related to food, safety, and preparation.

##### NTSM20 - Essentials of Food Safety

- pass the ServSafe certification, if taken.
- demonstrate knowledge of safe food preparation, display and service.

### Paramedic

#### CLO

##### PMM10 - Paramedic Studies

- demonstrate professional, ethical, empathetic, and compassionate treatment of patients from diverse religions, cultures, races, and marginalized groups.
- implement the paramedic scope of practice utilizing policies, protocols, procedures and regulations to assess, treat, care for, and transport pre-hospital patients in accordance with the standard of care.

##### PMM20 - PM Clinical and Preceptorship

- apply paramedic studies content to emergency and non-emergency patients with medical illness and traumatic injuries.
- distinguish pathophysiological causes to patient assessment, indicated treatment, prioritization of care, and transportation.

### Physiology

#### CLO

##### PHSOM01 - Human Physiology

- describe the human body's response when compensating for deviations from homeostasis

##### PHSOM01H - Honors: Human Physiology

- correctly predict the human body's response when compensating for deviations from homeostasis.

##### PHSOM122 - Independent Study - Physiology

- develop a deeper understanding of Human Physiology

### Radiologic Technology

#### CLO

##### RADTM01A - Radiographic Practice I

- describe the procedures for upper extremity, lower extremity, shoulder girdle and vertebral exams.
- evaluate and critique upper extremity, lower extremity, shoulder girdle and vertebral exams for image quality.

**RADTM01AL - Radiographic Clinical Lab I**

- evaluate the quality and accuracy of each position as it appears on the finished radiograph.
- perform all the assigned clinical lab procedures utilizing an actual patient and the clinical affiliate's routine for each procedure.

**RADTM01B - Radiographic Technique I**

- describe the production of x-ray photons and the interaction of x-rays within the human body.
- identify the different types of x-ray equipment including diagnostic and fluoroscopic systems.

**RADTM01BL - Radiographic Technique Lab I**

- explain image quality and the controlling factors.
- discuss technical factor problems and the quality control (QC) tests used to identify them.

**RADTM02A - Radiographic Practice II**

- demonstrate clinical competency when performing radiological procedures of skull, facial bones, paranasal sinuses and contrast enhanced exams.
- demonstrate critical thinking and problem solving skills needed to provide safe, high quality patient care.

**RADTM02AL - Radiographic Clinical Lab II**

- perform all the assigned clinical lab procedures utilizing an actual patient and the clinical affiliate's routine for each procedure.
- evaluate, assist and perform radiographic, fluoroscopic and mobile procedures

**RADTM02B - Radiographic Technique II**

- describe both pre and post processing of the digital image.
- discuss the principle of radiation protection and the effect at a cellular and organism level.

**RADTM02BL - Radiographic Technique Lab II**

- define quality assurance and quality control as they relate to radiography and list the components of a comprehensive quality control program.
- describe the practices which are appropriate for minimizing radiation exposure to patients and staff.

**RADTM03 - Advanced Radiographic Techniqu**

- explain the process of data acquisition, reconstruction and reformatting of computed tomography images.
- identify and recognize anatomy and common pathology on computed tomography and Magnetic resonance cross-sectional images.
- name and describe the purpose and function of common components of computed tomography (CT).

**RADTM03B - Radiographic Pathology**

- identify pathological and traumatic conditions of the major body systems in radiographic images.
- describe how to adjust to patient conditions for improved image quality of the pathology or trauma.

**RADTM03L - Radiographic Clinical Lab III**

- perform all the assigned clinical lab procedures utilizing an actual patient and the clinical affiliates's routine for each procedures.
- evaluate the quality and the accuracy of each position and image as it appears on the finished radiographs

**RADTM04 - Intro Image-Intensified Fluoro**

- compare and contrast the construction, components and the application process and image quality of conventional fluoroscopy and digital fluoroscopy.
- discuss gain, conversion factors, image formation, image size, brightness, magnification, recording and viewing systems of conventional and digital fluoroscopy.
- list and evaluate the regulations, patient safety and operator safety during operation of fluoroscopy equipment as stated in Title 17 and 10 CFR 20.

**RADTM04L - Radiographic Clinical Lab IV**

- evaluate the quality and the accuracy of radiographic procedures, and the technical skills as it appears on the finished radiograph.
- perform all the assigned clinical lab procedures utilizing an actual patient and the clinical affiliates routine for each procedure.

**RADTM09 - Basic Skills: Health Care Prof**

- demonstrate safe, basic knowledge of essential principles and practices of patient assessment and care skills.

- describe and demonstrate the methods of controlling infection in the health care setting.

### **RADTM10A - Intro to Radiologic Technology**

- demonstrate clinical competency when performing chest and abdominal images.
- communicate effectively with patient, health care team and others with sensitivity to age, gender, and cultural diversity.

### **RADTM10AL - Intro to Radiologic Tech Lab**

- demonstrate how to operate radiographic equipment while applying radiation safety principals.
- demonstrate radiographic procedures for the chest and abdominal exams.

### **RADTM10B - Intro Radiographic Technique**

- describe the major components of an x-ray system, including the circuitry and x-ray tube.
- discuss x-rays as an electromagnetic wave and its properties.

### **RADTM11 - Radiographic Lab I**

- perform all the assigned simulated lab procedures utilizing a fellow student as the "mock patient."
- perform all the assigned skills lab procedures utilizing a radiographic phantom and the energized x-ray tube
- evaluate and critique the radiographs for diagnostic quality.

### **RADTM12 - Radiographic Lab II**

- work in collaboration with other students to perform simulated lab procedures using non-energizing x-ray equipment.
- work in groups to perform all the assigned skills lab procedures utilizing a radiographic phantom and the energized x-ray tube.
- work in groups to evaluate and critique the procedure performances and radiographic images with the assistance of the instructor.

### **RADTM14 - Radiographic Film Critique Lab**

- prepare to sit for the American Registry of Radiologic Technologist (ARRT) exam.
- prepare a resume and cover letter.

### **RADTM15 - Venipuncture/ECG for RADT**

- establish a venous line for the administration of contrast agents.
- identify and describe complications associated with contrast administration and the appropriate actions to resolve these complications.

### **RADTM17 - Healthcare Ethics**

- demonstrate competency in ethical decision making.

### **RADTM30 - Nuclear Medicine Practice I**

- describe the procedures for routine imaging of the bone, cardiovascular, central nervous, digestive endocrine/exocrine systems.
- critique exams for image quality

### **RADTM32 - Principles of Nuclear Med I**

- describe the various radiopharmaceuticals including preparation and doses used in nuclear medicine.
- describe the various types of nuclear medicine cameras and instrumentation used.

### **RADTM34A - Nuclear Medicine Clinic Lab IA**

- complete competency evaluation of with at least 90% accuracy from the skeletal, cardiovascular, central nervous, digestive, and endocrine/exocrine systems.
- complete at least 5 clinical competencies from the skeletal, cardiovascular, central nervous, digestive, and endocrine/exocrine systems.

### **RADTM34B - Nuclear Med Clinical Lab IB**

- complete at least 4 clinical competencies from the skeletal, cardiovascular, central nervous, digestive, and endocrine/exocrine systems.
- complete competency evaluation of with at least 90% accuracy from the skeletal, cardiovascular, central nervous, digestive, and endocrine/exocrine systems.

### **RADTM40 - Nuclear Medicine Practice II**

- describe the nuclear medicine procedures involving the genitourinary, hematology, and respiratory systems.
- describe the radiopharmaceuticals used for imaging of the genitourinary, hematology, and respiratory systems.

**RADTM42 - Principles of Nuclear Med II**

- describe the preparation and application of therapeutic radionuclides for SPECT/CT, PET, and PET/CT procedures.
- discuss practice of radiopharmacy, including preparation, calculations of the dose to be administered, quality control, radiation safety and applicable regulations.

**RADTM44A - Nuclear Med Clinical Lab IIA**

- complete at least 5 clinical competencies from the respiratory, genitourinary and hematopoietic systems as well as inflammatory/tumor and pediatric procedures.
- complete competency evaluation of with at least 90% accuracy from the respiratory, genitourinary and hematopoietic systems as well as inflammatory/tumor and pediatric procedures.

**RADTM44B - Nuclear Med. Clinical Lab IIB**

- complete at least 5 clinical competencies from the respiratory, genitourinary and hematopoietic systems as well as inflammatory/tumor and pediatric procedures
- complete competency evaluation of with at least 90% accuracy from the respiratory, genitourinary and hematopoietic systems, as well as inflammatory/tumor and pediatric procedures.

**RADTM49 - Radiography Sum Practicum**

- perform all the assigned clinical lab procedures utilizing an actual patient and the clinical affiliate's routine for each procedure.
- evaluate accuracy of the performed procedures and critique quality of the exposed images during diagnostic imaging, fluoroscopy and mobile exams in the presence of a supervising technologists with a minimum of 2 year of experience as Radiologic Technologist.

**RADTM50 - Nuclear Medicine Seminar**

- recall the principles of nuclear medicine physics, radiochemistry and radiopharmacology.
- describe all nuclear medicine procedures pertaining to: central nervous, endocrine, respiratory, cardiovascular, gastrointestinal, genitourinary, skeletal, and hematopoietic systems.

**RADTM52A - Nuclear Med Clinical Lab IIIA**

- complete at least 3 clinical competencies from the skeletal, cardiovascular, central nervous, digestive, respiratory, genitourinary and hematopoietic systems.
- complete competency evaluation of with at least 90% accuracy from the skeletal, cardiovascular, central nervous, digestive, respiratory, genitourinary and hematopoietic systems.

**RADTM52B - Nuclear Med Clinical Lab IIIB**

- complete at least 3 clinical competencies from the skeletal, respiratory, gastrointestinal, central nervous, endocrine, genitourinary and hematopoietic systems as well as inflammatory/tumor and pediatric procedures.
- complete competency evaluation of with at least 90% accuracy from the skeletal, respiratory, gastrointestinal, central nervous, endocrine, genitourinary and hematopoietic systems as well as inflammatory/tumor and pediatric procedures.

**RADTM122 - Ind. Study - Radiologic Tech**

- analyze new information, practices, or research in the Radiologic Technology discipline and utilize those findings in further research or creative projects.

**Zoology****CLO****ZOOM01 - Introduction to Zoology**

- compare and contrast the many adaptations to the challenge of survival demonstrated by the studied animal phyla and understand how evolutionary forces select for these adaptations

**ZOOM122 - Independent Study - Zoology**

- develop a deeper understanding of Zoology through independent study including adaptations due to evolutionary forces.

**Business, Child Development, Languages and Behavioral & Social Sciences****Accounting****CLO****ACCTM01 - Introduction to Accounting**

- Use a trial balance to journalize adjusting entries and prepare an adjusted trial balance
- Use an adjusted trial balance to prepare an income statement, statement of owner's equity, and balance sheet

- Prepare and journalize closing entries.

#### ACCTM40 - Accounting Ethics

- Identify and apply the requirements of the AICPA Code of Professional Conduct and Internal Revenue Service Circular 230.

#### ACCTM50 - Principles of Income Taxation

- Determine the deductibility of tax items in arriving at taxable income
- Complete a Form 1040, including all applicable schedules and worksheets given a fictitious tax scenario

#### ACCTM51 - VITA

- Utilize tax terminology, concepts, principles, and ethics to successfully prepare Federal and California tax returns.
- Utilize appropriate interviewing procedures to obtain verifiable tax information needed to complete individual tax returns.
- analyze and apply applicable tax law to individual Federal and California tax return issues, forms and appropriate schedules required and apply to moderate tax returns.

#### ACCTM52 - Taxation of Business Entities

- determine gross income and deductions for businesses.
- determine the tax consequences associated with purchasing assets and property dispositions.
- compare and contrast entities in formation, reorganization, and liquidations of different types of business entities.

#### ACCTM53 - VITA II

- utilize tax terminology, concepts, principles, and ethics to successfully prepare and review Federal and California tax returns.
- use appropriate interviewing procedures to obtain verifiable tax information needed to complete and review individual tax returns.
- analyze and apply applicable tax law individual Federal and California tax return issues, forms and appropriate schedules required and apply to moderate to advanced tax returns.

#### ACCTM60 - Excel for Accounting

- Create Excel spreadsheets, including graphs, to present accounting information.
- Use Excel formulae, functions, and graphs to solve typical accounting problems.
- Use Excel worksheets to create depreciation and amortization schedules, bank reconciliations, and other commonly used accounting worksheets.

#### ACCTM62 - Quickbooks For PCs

- create a company file, record monthly transactions and adjusting journal entries, and prepare financial statements.
- complete a cash reconciliation including making deposits, writing checks, matching bank transactions, and reconciling bank statements.

#### ACCTM70 - Payroll Accounting

- Calculate and record wages and salaries in compliance with the Fair Labor Standards Act, and record federal, state, local withholdings and employee deductions and benefits
- Calculate and record federal and state employer taxes
- Prepare periodic payroll reports to federal taxing authorities

#### ACCTM80 - Internship in Accounting

- demonstrate contemporary and relevant work experience in the field of accounting.

#### ACCTM110 - Financial Accounting

- Identify and account for the business transactions of a corporation
- Record adjusting and closing journal entries, and construct a complete set of financial statements, including an income statement, statement of retained earnings, and balance sheet.
- Prepare a bank reconciliation and record necessary journal entries

#### ACCTM120 - Managerial Accounting

- Construct a Cost of Goods Manufactured Statement and a Cost of Goods Sold Statement
- Perform cost-volume-profit analysis to determine break-even point in sales, or sales volume, necessary to achieve a desired net operating income.
- Prepare a master manufacturing budget, including the operating budgets, cash budget, budgeted income statement, and budgeted balance sheet.

**Business****CLO****BUSM30 - Introduction to Business**

- discuss the role of business in society, the primary functions within a business, and external forces that affect business activities.
- explain fundamental economic principles and describe how they shape the business environment.
- summarize contemporary business concepts, principles, and practices that explain how to form businesses, how they operate, and why and how effective management is important to their success.
- recognize the importance of business ethics and corporate social responsibility.

**BUSM31 - Introduction to Management**

- describe the four functions of management, leading, planning, organizing, and controlling in today's business environment.
- recognize the ethical issues facing managers and apply decision-making techniques and ethical reasoning to ethical dilemmas in management.
- identify the managerial skills needed to interpret information, make decisions, solve problems, and evaluate outcomes in the business environment.

**BUSM32 - Entrepreneurship & Sm Bus Mgmt**

- describe the process of starting a business from entrepreneurial idea to development.
- design a comprehensive business plan that addresses budget and financing, staffing, marketing, site selection, and legal and regulatory issues.
- recognize the ethical issues facing entrepreneurs and apply decision-making techniques and moral reasoning.

**BUSM33 - Business Law**

- explain the U.S. legal system and the legal environment of business.
- demonstrate inductive analysis by synthesizing case law to explain legal principles that apply to the legal issues.
- illustrate an understanding of criminal liability, civil liability, and contract issues associated with business.
- recognize legal and ethical issues when making business decisions.

**BUSM35 - Sales Techniques**

- identify the sales process from prospecting and qualifying, approaching the customer, establishing rapport, determining customer needs, giving an effective presentation, handling objections, negotiations, and closing the sale.
- design a compelling sales presentation.
- recognize the ethical issues in business sales and apply decision-making techniques and moral reasoning.

**BUSM37 - Marketing**

- design a basic marketing plan including a marketing strategy, the marketing environment, marketing research, consumer behavior, and target marketing.
- explain how organizations use the marketing mix (product, price, place, and promotion) to market to their target customers.
- recognize the ethical issues in marketing and apply decision-making techniques and moral reasoning.

**BUSM39 - Business Communication**

- apply business communication strategies and principles to prepare effective communication in business.
- determine appropriate organizational formats and channels used in developing and delivering business messages.
- design an effective oral business presentation that presents information in an organized, logical manner using acceptable visual aids.
- recognize the ethical issues in business communication and apply decision-making techniques and moral reasoning.

**BUSM41 - Principles of Retailing**

- explain the design, implementation, and assessment of retailing strategies for consumer needs and market changes.
- describe the process of conceiving, producing, and selling products for in-store and on-line retailing.
- recognize the ethical issues in retail and apply decision-making techniques and moral reasoning.

**BUSM70 - Global Business**

- identify and explain global business concepts related to marketing, management, human resource management, accounting, finance, production operations management.

### **BUSM71 - Global Marketing**

- identify and explain the basic concepts and practices of modern global marketing.

### **BUSM72 - Supply Chain Management**

- explain the essential elements of the global supply chain.
- identify key issues of tracking and transporting goods.

### **BUSM73 - Import/Export Fundamentals**

- identify the basic concepts and practices of importing and exporting goods.

### **BUSM80 - Internship In Business**

- demonstrate contemporary and relevant work experience in business

### **BUSM140 - Business Information Systems**

- Build and assess data-based models in a spreadsheet
- explain major concepts in Information Systems and their roles in business.

### **BUSM400 - Project Management**

- create a mitigation plan that assesses risk in a project and suggests mitigation of adverse impacts
- design a project management plan using Smartsheets, MSPProject, or other project management software
- evaluate the resource requirements of a project management plan

## **Business Information Systems**

### **CLO**

#### **BISM10 - Microsoft Windows - Intro**

- navigate through the file and folder system in the Windows operating system including moving, organizing and renaming files and folders.
- search for any file, open, save, save as, delete, and recover for any file type.
- open and switch between all applications using the task bar, task view, pinned applications and open applications.
- update Windows; use installed apps such as OneDrive, Edge, and Cortana.

#### **BISM20 - Microsoft Office - Intro.**

- create a basic database using Access software.
- prepare business documents using Word Processing software.
- build spreadsheets using Excel software.
- prepare presentations using PowerPoint software.

#### **BISM21A - MS Word - Intermediate**

- plan, create, edit, and complete production of business documents.
- analyze document requirements and apply word processing software features.
- determine and apply appropriate Microsoft Word tools to solve various business problems.

#### **BISM21B - Microsoft Word - Advanced**

- create and edit forms and templates to be used in a business environment.
- utilize advanced features of Word to maintain editing and revision control of professional documents.
- add indexes and references to new and existing documentation.
- use mail merge to create mailing lists to communicate with clients, employees and stakeholders.

#### **BISM22A - MS PowerPoint - Intermediate**

- create and modify presentations that effectively communicate data and concepts to an audience.

- use video, photos and motion to enhance an audience's understanding of a presentation.
- develop a master slide to improve the time it takes to create a presentation.

### **BISM23A - MS Excel - Intermediate**

- plan, create, edit, and complete production of business spreadsheets.
- use Excel tools and formulas to quickly summarize numeric information.
- utilize graph and table tools to visually highlight important information.

### **BISM23B - MS Excel - Advanced**

- plan, create, edit, and complete production of complex business spreadsheets.
- use advanced Excel tools and formulas to quickly summarize and aggregate numeric information.
- utilize advanced Excel tools and macros to summarize and report key information.

### **BISM24 - MS Access - Introduction**

- design, create and maintain a database that can be used in a business environment.
- utilize the Access database tools to examine data and summarize it into useful business information.
- create reporting output that summarizes information obtained within the database.

### **BISM25 - MS Outlook - Introduction**

- create and manage your email own email, calendar, contacts and To Do list.
- manage you boss's emails, calendar, contacts and To Do list.
- administrate contact groups for multiple departments.

### **BISM26 - MS Project - Introduction**

- create tasks and dependencies in a project and estimate a finish date.
- assign resources to tasks and track their progress along with identifying bottlenecks in the process to resolving resource issues.
- use Microsoft Project reporting tools to share information about the status of a project.

## **Child Development**

### **CLO**

#### **CDM02 - Human Dev: Infancy/Adolescence**

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

#### **CDM03 - Child, Family & Community**

- develop an environment that honors the diversity of the learning community through empowerment, equity, respect, and dignity.
- describe socialization of the child focusing on the interrelationship of family, culture, teachers, and the community.
- describe strategies for collaboration with families to support children's development and learning that are respectful, reciprocal, and engaging.
- identify community resources to support children and their families.

#### **CDM03H - Honors: Child, Family & Commun**

- describe socialization of the child focusing on the interrelationship of family, culture, teachers, and the community.
- describe strategies for collaboration with families to support children's development and learning that are respectful, reciprocal, and engaging.
- identify community resources to support children and their families.
- develop an environment that honors the diversity of the learning community through empowerment, equity, respect, and dignity.

#### **CDM04 - Observation and Assessment**

- evaluate the characteristics, strengths, limitations, and applications of contemporary observation and assessment tools.

- complete systematic observations and assessments of children's development and learning using a variety of data collection methods to inform classroom teaching, environment design, interactions, and curriculum.
- describe the ethical and professional responsibilities for educators in observing and assessing young children's development and learning.

#### CDM04L - Observation & Assessment Lab

- apply their understanding of developmental domains to their observations of children in the lab and theoretically interpret the observed behaviors.

#### CDM05 - Teaching in a Diverse Society

- develop an environment that honors the diversity of the learning community through empowerment, equity, respect, and dignity.
- Examine the impact of various societal influences on the development of children's personal and social identity.
- Describe the ways that developmentally appropriate, inclusive, and anti-bias approaches support learning and development.
- Identify the influence of teachers' own culture and life experiences on teaching approaches and interactions with children and families.

#### CDM07 - Music in ECE

- demonstrate their understanding of developmentally appropriate music experiences for young children and relevant curriculum planning principles.

#### CDM08 - Multicultural Children's Art

- develop an environment that honors the diversity of the learning community through empowerment, equity, respect, and dignity.
- demonstrate their understanding of developmentally appropriate art experiences for young children and relevant curriculum planning principles.
- demonstrate their understanding of the visual arts content standards and relevant curriculum planning principles by developing lesson plans appropriate for children of various age groups (preschool, kindergarten, elementary, middle school, and/or high school).

#### CDM09 - STEM in ECE

- apply their knowledge of children's development of science content knowledge and process skills to their observations of children and theoretically interpret the observed behavior.
- apply their knowledge of children's development of technology content knowledge and process skills to their observations of children and theoretically interpret the observed behavior.
- apply their understanding of young children's development of engineering content knowledge and process skills to their observations of children, and theoretically interpret the observed behavior.
- apply their understanding of young children's development of mathematics content knowledge and process skills to their observations of children, and theoretically interpret the observed behavior.

#### CDM10 - Language Arts in ECE

- demonstrate increased skill in the art of storytelling and reading aloud to children.

#### CDM11 - Principles & Practices in ECE

- compare and contrast historical and current early childhood education settings issues and perspectives.
- explain how foundational knowledge of child development and learning theories inform environments pedagogy and interactions in early care and education settings.
- identify the roles requirements and responsibilities of early childhood teachers as professional educators.

#### CDM12 - ECE Teaching Practicum

- design and implement curriculum and environments that are developmentally and linguistically-appropriate, engaging, and supportive of development and learning based on foundations of early childhood education and knowledge of individual children in the campus CDC classrooms (i.e. the Lab or a designated child development classroom).
- apply a variety of teaching strategies, manage the classroom, monitor children's development and learning, guide behavior, and use reflection on teaching practice to guide future planning in the campus CDC classrooms (i.e. the CD Lab) or a designated child development classroom.
- demonstrate the skills of a professional teacher including effective communication, ethical practice, responsibilities to children and families, and commitment to ongoing professional development. in the campus CDC classrooms (i.e., the CD Lab) or a designated child development classroom.
- develop an environment that honors the diversity of the learning community through empowerment, equity, respect, and dignity.

#### CDM12L - ECE Teaching Practicum Lab

- develop an environment that honors the diversity of the learning community through empowerment, equity, respect, and dignity.
- develop curriculum and assessment plans for children in the campus CDC classrooms (the CD Lab) or a designated child development classroom.
- design, implement, and evaluate curriculum and environments based upon observation and assessment of young children in the campus CDC classrooms (the CD Lab) or a designated child development classroom.

**CDM14 - Introduction to Curriculum**

- develop an environment that honors the diversity of the learning community through empowerment, equity, respect, and dignity.
- apply elements of various curriculum models, approaches, theories, and standards for early learning including indicators of quality to plan and individualize curriculum for children ages birth through eight.
- develop curriculum for all content areas to support children's learning and developmental needs.
- plan indoor and outdoor environments based on knowledge and understanding of children's development and needs.

**CDM15 - Programs: Infants/Toddlers**

- analyze the variety of programs available to infant/toddler children and components of a quality program.

**CDM16 - Challenging Behaviors**

- develop an environment that honors the diversity of the learning community through empowerment, equity, respect, and dignity.
- demonstrate understanding of functional assessment and positive behavior support strategies.
- differentiate between developmentally appropriate behaviors and challenging behaviors.
- explain how the teachers' perceptions, experiences, and behavior influences the students' behavior.

**CDM18 - Reflective Practice Seminar**

- Implement the cycle of reflective practice.
- assess one's teaching experiences to guide and inform practice.
- Select, apply, and evaluate a variety of instructional strategies, including purposeful play, to support students' learning and development.

**CDM21 - Infant and Toddler Development**

- connect observed behaviors of children birth to 36 months to developmental concepts and theories in the physical, cognitive, language, social and emotional domains.

**CDM23 - Health, Safety, & Nutrition**

- describe strategies used to promote the health, safety, and nutrition of children and adults in care and education settings.
- evaluate environments for both positive and negative impacts on children's and adults' health and safety.
- identify regulations, standards, policies, and procedures related to health, safety, and nutrition in care and education settings

**CDM24 - Administration in ECE I**

- evaluate components of quality programs: facilities, operations, strategic and fiscal planning, in various types of early care and education settings.

**CDM25 - Administration in ECE II**

- examine effective practices for managing, evaluating, and leading staff and administering early care and education programs.
- establish professional relationships and facilitate collaboration and communication between colleagues, families, and stakeholders.

**CDM26 - Adult Supervision & Mentoring**

- demonstrate their understanding of leadership styles and their application to developmental levels of teachers.
- demonstrate competency in communication and reflective practices when working with diverse adult populations.

**CDM70 - CA Found/Fram Social-Emotional**

- Explain the roles of the California Preschool Learning Foundations and Frameworks in the education of young children and their relationship to the Desired Results Developmental Profile (DRDP).
- Plan environments and experiences, based on observation of children, to support children's development of self-regulation and social skills.
- Describe how teachers can collaborate with parents and other caregivers to support children's social and emotional development.

**CDM71 - CA Foun/Fram Lang-Literacy**

- Explain the roles of the California Preschool Learning Foundations and Frameworks in the education of young children and their relationship to the Desired Results Developmental (DRDP), California Common Core State Standards for kindergarten and Content Standards for California Public Schools (kindergarten).
- Plan environments and experiences, based on observation of children, to support children's language and literacy development.
- Describe how teachers can collaborate with parents and other caregivers to support children's language and literacy development.

**CDM72 - CA Foun/Fram English Lang Dev**

- Explain the roles of the California Preschool Learning Foundations and Frameworks in the education of young children and their relationship to the Desired Results Developmental Profile (DRDP), California Common Core State Standards for kindergarten and Content Standards for California Public Schools (kindergarten).
- Plan environments and experiences, based on observation of children, to support children's English language development.
- Describe how teachers can collaborate with parents and other caregivers to support children's English language development.

### CDM73 - CA Foun/Fram Math

- Explain the roles of the California Preschool Learning Foundations and Frameworks in the education of young children and their relationship to the Desired Results Developmental Profile (DRDP), California Common Core State Standards for kindergarten and Content Standards for California Public Schools (kindergarten).
- Plan environments and experiences to support mathematical learning, based on the observation of children in classroom settings.
- Articulate the teacher's role in collaborating with families to support children's mathematical learning.

### CDM74 - CA Foun/Fram Visual Arts

- Explain the roles of the California Preschool Learning Foundations and Frameworks in the education of young children and their relationship to the Desired Results Developmental Profile (DRDP), and Content Standards for California Public Schools (kindergarten).
- Plan environments and experiences, based on observation of children, to support children's development of visual arts skills.
- Describe how teachers can collaborate with parents and other caregivers to support children's development of artistic skills.

### CDM75 - CA Foun/Fram Performing Arts

- Explain the roles of the California Preschool Learning Foundations and Frameworks in the education of young children and their relationship to the Desired Results Developmental Profile (DRDP), and Content Standards for California Public Schools (kindergarten).
- Plan environments and opportunities to support children's development of appreciation of the arts including opportunities to express themselves through music, dance, and dramatic play.
- Articulate the teacher's role in collaborating with families to support children's art awareness and expression.

### CDM76 - CA Foun/Fram Physical Develop

- Explain the roles of the California Preschool Learning Foundations and Frameworks in the education of young children and their relationship to the Desired Results Developmental Profile (DRDP), California Common Core State Standards for kindergarten and Content Standards for California Public Schools (kindergarten).
- Plan environments and opportunities to support physical development, based on the observation of children in classroom settings.
- Articulate the teacher's role in collaborating with families to support children's physical development.

### CDM77 - CA Foun/Fram Health

- Explain the roles of the California Preschool Learning Foundations and Frameworks in the education of young children and their relationship to the Desired Results Developmental Profile (DRDP), California Common Core State Standards for kindergarten and Content Standards for California Public Schools (kindergarten).
- Plan environments and experiences related to the development of healthy habits, personal safety, and nutrition, based on the observation of children in classroom settings.
- Articulate the teacher's role in collaboration with families to support the development of healthy habits in young children.

### CDM78 - CA Foun History/Soc Science

- Explain the roles of the California Preschool Learning Foundations and Frameworks in the education of young children and their relationship to the Desired Results Developmental Profile (DRDP), California Common Core State Standards for kindergarten and Content Standards for California Public Schools (kindergarten).
- Plan environments and experiences to support children's concept development in the areas of history and social science.
- Describe how teachers can collaborate with parents and other caregivers to provide meaningful history and social studies learning experiences for young children.

### CDM79 - CA Foun/Fram Science

- Explain the roles of the California Preschool Learning Foundations and Frameworks in the education of young children and their relationship to the Desired Results Developmental Profile (DRDP), California Common Core State Standards for kindergarten and Content Standards for California Public Schools (kindergarten).
- Plan environments and experiences, based on observation of children, to support children's development of scientific concepts.
- Describe how teachers can collaborate with parents and other caregivers to support children's understanding of scientific concepts.

### CDM80 - Internship/Child Dev

- Develop on-the-job learning objectives that demonstrate new and expanded learning at the work site that directly relate to the student's educational or occupational goal (major or career).
- Demonstrate successful workplace human dynamics, which may include: working as part of a team, following implicit and explicit instructions including company policies and procedures, and practicing work ethics.

- Demonstrate appropriate work skills such as communication, problem solving, decision making, teamwork, self-management, initiative, and/or technical skills that are gained as a result of new and expanded learning at the worksite.
- Organize and maintain occupational work experience records, including time sheets, a consultation record, and learning objective proposals, evaluation, and documentation.
- Appraise and evaluate the occupational work experience situation as it applies to the student's educational or occupational goals (major or career) in written or verbal format in the form of a paper, project, or presentation.

## Chinese

### CLO

#### CHINM100 - Elementary Chinese: Mandarin I

- demonstrate some knowledge and understanding of the cultures of the Chinese-speaking regions studied.
- begin to conduct simple, short interpersonal communications in the language, using mostly word lists and some highly practiced phrases in both oral and written form in the present tense.
- demonstrates comprehension of beginning-level authentic texts [reading, listening, and viewing] on day to day activities, such as advertisements, applications, instructions, articles, and schedules.
- describe familiar events and present personal information about daily life topics (family, school, activities, likes/dislikes) using mostly word lists and some highly practiced phrases in both oral and written form in the present tense.

#### CHINM110 - Elementary Chinese: Mandarin II

- demonstrate some knowledge and understanding of the cultures of the Chinese-speaking regions studied
- conduct simple, short interpersonal communications on a wider range of topics using appropriate vocabulary and sentence structures, in both oral and written form with increased accuracy and clarity.
- demonstrate comprehension of intermediate level authentic texts, including day-to-day activities, advertisements, applications, instructions, articles, and subtitles for Chinese TV series.
- describe familiar events and present personal information about daily life topics (family, school, restaurant, airport, etc.) within a Chinese-speaking context.

## Computer Netwrk Sys. Engr. Prg

### CLO

#### CNSEM01 - Networking Fundamentals

- configure basic network resources and apply basic troubleshooting skills
- describe the role, duties, tools, strategies of network and server administrators.
- describe basic network operation of hubs, switches, access points, network interface cards, and routers.
- describe techniques used in supporting and troubleshooting networks.

#### CNSEM05 - Fundamentals: Computer Network

- describe the purpose of the OSI (Open Systems Interconnection) Model and each of its layers.
- describe the methods of network design unique to TCP/IP networks, including subnetting, CIDR (Classless Inter-Domain Routing), and NAT (network address translation).
- discuss practical issues related to troubleshooting.

#### CNSEM06 - Fundamentals of IT Essentials

- install, configure, troubleshoot and repair desktop microcomputer systems.
- describe various system management and troubleshooting tools and applications to repair, and or maintain user and system applications and operating systems as needed. (Comptia).
- describe system management including backup/restore, windows update, driver rollback, local users and groups, User Access Control, Remote Access (Comptia).
- describe storage scenarios including Sata, IDE/ATA, Raid configurations, Disk Management, and FAT32, NTFS, FAT64, ext3, ext4, Apple File Allocation Table, exFAT, etc.

#### CNSEM13 - Internetworking & TCP/IP

- describe IPv4 and IPv6 addressing in terms of structure, design, and benefits.
- describe the protocols and services TCP/IP provides.
- address an Internet Protocol Version 4 network and apply Variable Length Subnet Masks.

#### CNSEM18 - Cisco Sys Comp Netwrking A

- implement router and switch network device security features to properly lockdown and secure devices including access restrictions and connectivity restrictions.
- implement switch security, port negotiation, and switch management including using tools such as ping, traceroute, telnet, SSH, arp, ipconfig, debug, and show commands.
- troubleshoot and correct problems associated with device, router, and switch configurations.

### **CNSEM19 - Cisco Sys Comp Networking B**

- configure Internet Protocol Version 4 and Internet Protocol Version 6 static and dynamic routes.
- configure, verify and troubleshoot a switch with VLANs, and implement Network Address Translation (NAT) and Access Control Lists (ACL).
- perform troubleshooting related to: spanning tree operation, routing processes, OSPF and EIGRP configuration, Vlan routing, and WAN implementations.

### **CNSEM30 - MS Windows Administration**

- administer, maintain, and troubleshoot Windows computers.
- configure system and data recovery options including drive recovery, system restore, driver rollback, and restore points, and include file and folder recovery.
- configure hardware and applications including drivers, desktop apps and Windows Store apps, control access to hardware and applications, Internet Explorer and its security and privacy settings, and manage virtual machines using Hyper-V.

### **CNSEM31 - MS Windows Network Server**

- install and configure server roles, upgrades, optimize resources and services, migrate from previous versions, and design local storage.
- install and administer Active directory including Domain Controllers, Active Directory users and computers, groups and Organizational units.
- create and manage group policy including Group Policy Objects, security policies, restriction policies, and Windows.

### **CNSEM55 - Linux Networking & System Admi**

- troubleshoot basic Linux installation problems.
- demonstrate various operations with users and groups.
- examine the network configuration files.

### **CNSEM56 - CompTIA Advanced Security Prac**

- set up user, root, and group account and policies, password policy, authentication methods, and configure file and directory permission.
- implement transmission control program for network services such as networking, web services, remote access, and network security policies.
- identify the various tools and processes security practitioners use to implement security solutions based on security risk and compliance goals.
- practice using penetration testing and forensics analysis tools to assess system security including performing security tasks, and reviewing security logs.

### **CNSEM57 - Scripting for Security Mngt.**

- configure scripts that use various communication concepts.
- modify Python applications to send and receive interactions with security tools such and perform system automation and system administration tasks.
- select and analyze the different tools and techniques related scripts
- create well written scripts using good programming techniques for security administration and to automate administration tasks.

### **CNSEM58 - MySQL-PHP Web Databases**

- install and configure database support for migration, encryption, monitoring, backups, snapshots, and other database maintenance tasks.
- demonstrate how to grant and deny permissions to users and roles in a database and how to plan appropriate strategies to maintain data integrity.
- demonstrate how to backup and restore data using both graphical user interfaces and the command line for databases and database services.

### **CNSEM67 - VMware vSphere Fundamentals**

- configure authentication, authorization and accounting/audit controls.
- configure data protection to support virtual machine configuration requirements.
- configure resource management and monitoring to support hosted virtual machines.

- install VMware vSphere program and related components.

### **CNSEM68 - VMware Optimize and Scale**

- deploy VMware vSphere, virtual machines, and their related components.
- manage changes, harden vSphere, and optimize performance.
- troubleshoot faults and identify root causes.

### **CNSEM80 - Internship in CNSE**

- Develop on-the-job learning objectives that demonstrate new and expanded learning at the work site that directly relate to the student's educational or occupational goal (major or career).
- Demonstrate appropriate work skills such as communication, problem solving, decision making, teamwork, self-management, initiative, and/or technical skills that are gained as a result of new and expanded learning at the worksite.
- Organize and maintain occupational work experience records, including time sheets, a consultation record, and learning objective proposals, evaluation, and documentation.
- Appraise and evaluate the occupational work experience situation as it applies to the student's educational or occupational goals (major or career) in written or verbal format in the form of a paper, project, or presentation.

### **CNSEM82 - Intro to Network Security**

- identify network services that are commonly exploited by attackers.
- explain the vulnerabilities of JavaScript, buffer overflow, ActiveX, cookies, CGI (Common Gateway Interface), applets, SMTP (Simple Mail Transfer Protocol) relay, and how they are commonly exploited.
- explain the importance of defining and documenting security policies and procedures.

### **CNSEM83 - Intro Computer Forensics**

- Describe ways hostile codes are used to gain unauthorized access to your computer.
- Describe the hierarchy of network attackers' skills.
- Discuss the levels of system compromise.

### **CNSEM84 - Certified Ethical Hacker**

- describe what mutual authentication is and why it is necessary.
- describe footprinting, scanning, and enumeration and how these techniques are used during network reconnaissance.
- describe various techniques used in Operating System hacking including Microsoft and Linux.
- describe security threat trends and their ramifications.

### **CNSEM86 - Firewall Administration**

- Define firewall; and categorize network security threats.
- Identify three types of firewalls.
- Explain or demonstrate how to configure the AAA (authentication, authorization, accounting) server.

### **CNSEM100 - Cybersecurity Analysis**

- Analyze scan output and identify common vulnerabilities.
- Analyze the results of network and environmental reconnaissance.
- Apply best practices in securing a corporate environment.

### **CNSEM105 - Cloud Foundations**

- explain the various advantages cloud computing provides including computing, storage, performance, availability, and security.
- explain various cloud services that are available on cloud platforms.

### **CNSEM106 - Cloud Architecture**

- explain how scalability, high availability, and fault-tolerance is achieved in the cloud.
- select the best cloud service based on data, compute, database, or security requirements.

### **CNSEM107 - AWS Cloud System Operations**

- explain how access keys are used when accessing cloud services.
- explain system administration tasks pertaining to various cloud services.

- explain the use of Identity Access Management and user roles.

### CNSEM111 - Azure Cloud Fundamentals

- explain cloud infrastructure services, applications and environments
- make recommendations on services, performance, provisioning, and resource allocation

### CNSEM170 - Cloud Security

- Describe cloud architecture concepts and design requirements for cloud operations.
- Design cloud data security principles.
- Design platform and infrastructure security.

## Criminal Justice

### CLO

#### CJM01 - Intro-Criminal Justice

- identify and compare the functions of the Criminal Justice System components: police, courts and corrections.
- demonstrate an understanding of major concepts and issues in the American Criminal Justice System. Students will be able to utilize historical, contemporary, political and geographical considerations and relevant published data in their analysis and exploration of the American Criminal Justice System and its impact upon American Society.

#### CJM01H - Honors: Intro Criminal Justice

- identify and describe the general constitutional principles relevant to the administration of justice.
- identify and compare the functions of the Criminal Justice system components: police, courts and corrections.

#### CJM02 - Concepts of Criminal Law

- examine laws through the use of legal research in case studies by employing the use of a law library and case law research.
- logically present oral arguments and apply critical thinking and logical analysis relating to contemporary and future implications of current or cited cases.
- examine laws through the use of legal research in case studies by employing the use of a law library and case law research and apply critical thinking and logical analysis in presenting a case brief.

#### CJM03 - Community Relations

- develop long-term relationships with community service agencies in addressing quality of life issues in the community and identify workable solutions.
- provide service to the community through volunteer activities to support a service learning project.

#### CJM04 - Legal Aspects of Evidence

- apply evidentiary standards learned in class to a current criminal scenario provided by the instructor.
- demonstrate the ability to write a search warrant based on facts provided through current events, popular media or instructors scenario.

#### CJM05 - Prin/Procedures Justice System

- compare and contrast the classifications of criminal laws, defenses to crime, and their punitive applications.
- examine criminal procedural law through the use of legal research of case law and apply critical thinking and logical analysis in presenting a case brief.
- demonstrate understanding of arrest, search, seizure and court procedures.

#### CJM06 - Crim Invest Report Writing

- identify the type of information necessary to complete a variety of different police reports; including crime reports, arrest reports, property reports, missing person reports, traffic collision and vehicle impound reports.
- write various types of police reports and identify types of information necessary to complete a police report based on a criminal scenario.

#### CJM07 - Principles of Civil Law

- will acquire knowledge and skills to successfully complete entrance level application, testing, and interview process for a career position in the field of civil law and practice.
- explain the process a civil case takes from initial filing through the appellate proceedings.
- demonstrate the ability to use and understand basic legal research methods using traditional materials or online materials.

- analyze a case using traditional methods of legal reasoning.
- apply legal reasoning in the examination of civil law, family law, real property law, contract law, immigration law, intellectual property law and employment law.

### **CJM08 - Intro to Constitutional Law**

- Analyze the influence of the United States Constitution and the Supreme Court of the United States upon American society, criminal justice system and government.
- Examine and articulate the concepts of judicial review and the incorporation of the Bill of Rights.
- Assess and evaluate the effects of the American political process on the actions and decisions issued by the Supreme Court of the United States.

### **CJM09A - Bujinkan Fundamentals-Practica**

- compare and contrast the historical development and philosophy of the Bujinkan Martial Arts System and other popular self-defense systems.
- develop proficiency in practical, non violent self-defense strategies and techniques to positively resolve physical and mental conflicts.

### **CJM09B - Bujinkan Int Practical SelfDef**

- demonstrate intermediate skills enhancing their ability to successfully work with partners as a team member.
- acquire proficiency in using intermediate-level body mechanics for balance and protection.
- demonstrate intermediate level practical self-defense instruction and leadership skills, methods and strategies.
- gain expertise in acquiring, evaluating, organizing, and interpreting historical and practical application of self-protection systems.
- examine current events involving intermediate practical self-defense issues and participate in critical thinking exercises to problem solve, reason and support their decision-making process.
- apply ethics related to intermediate practical self-defense situations in the classroom and in relationship to the criminal justice field.
- develop intermediate level practical self-defense instruction techniques using oral presentations.

### **CJM10 - Tactical Patrol Procedures**

- identify the role of a patrol officer, identify the equipment used on patrol, explain the primary purposes of patrol and develop an understanding of the legal requirements for a patrol officer when interacting with the public and in the use of force.
- demonstrate the steps used by a patrol officer conducting a preliminary investigation of an alleged criminal activity.
- explain the steps a patrol officer would use for conducting a preliminary investigation.

### **CJM11 - Criminal Investigation**

- compare and contrast the different methods of crime scene investigations and procedures.
- apply proper investigative procedures for various types of criminal offenses.
- demonstrate appropriate investigative techniques used in a true murder case or murder scene scenario presented by instructor.

### **CJM12 - Intro to Conflict Resolution**

- apply legal reasoning in the examination and application of conflict resolution principals and practice in the fields of civil law, family law, contract law, immigration law, intellectual property law and employment law.
- analyze the common conflict resolution models using traditional methods of legal reasoning.
- demonstrate the ability to use and understand basic legal research methods using traditional materials or online materials.
- explain the basic processes of common conflict resolution methods.
- will acquire knowledge and skills to successfully complete entrance level application, testing, and interview process for a career position in the field of civil law and practice.

### **CJM14 - Juvenile Procedures**

- identify and explain the philosophical and historical roots of the juvenile justice system.
- explain the roles that schools, police and the courts play in the adjudication of juvenile offender complaints.
- compare the role of social institutions to the criminal justice system as contributors to juvenile delinquency.

### **CJM15 - LegalAspects/CyberInvestigaton**

- distinguish between lawful and unlawful electronic or digital evidence searches.
- identify federal statutes and case law controlling government searches of digital or electronic data.
- understand and be able to apply forensic techniques to identity and data theft investigations.

**CJM17 - Anatomy of a Murder**

- identify and differentiate among the various types of offender characteristics and motivational typologies and modes of death.
- identify investigative strategies to be used in homicide investigations including the appropriate procedures for the identification and collection of evidence at a homicide crime scene.
- discuss the evolution of a homicide investigation.

**CJM18 - Narcotics Investigation**

- analyze the impact of past geo-political events involving drug trafficking on current international relations and the inability to stop illicit drug production at its source.
- interpret substantive statutes in the Uniformed Controlled Substance Act and research current case law relative to narcotics investigations.
- identify and compare different theories in drug prevention, rehabilitation, and legalization from the social, health, and legal perspective.

**CJM40 - Ethics in Criminal Justice**

- identify and analyze ethical issues in criminal justice
- define the concepts of integrity and ethics
- apply key principles in criminal justice ethics to analyze real life and hypothetical decision-making situations in the practice of criminal justice.

**CJM41 - Intro-Prob/Parole/Corrections**

- compare and contrast local and state prison systems and alternative to incarceration in American corrections.
- explain the differences between jails and prisons and describe the role each plays in American corrections.
- explain the rationale for utilization of probation, parole and community corrections as an alternative to incarceration.

**CJM43 - Criminal Justice Employ Prepar**

- demonstrate and apply strategies and techniques of oral interviewing skills that supports successful completion of the oral board portion of the testing process.
- demonstrate physical fitness proficiency at a level that supports successful completion of the physical agility portion of the testing process.

**CJM80 - Internship in Criminal Justice**

- demonstrate contemporary and relevant work experience in the hospitality field

**CJM122 - Ind. Study - Criminal Justice**

- analyze new information, practices, or research in the Criminal Justice discipline and utilize those findings in further research or creative projects.

**Economics****CLO****ECONM80 - Internship in Economics**

- demonstrate work experience pertaining to Economics.

**ECONM170 - Economic History of the US**

- identify and recognize the impact of organizations and institutions on the economy's development
- demonstrate and interpret the cause and effect relationships in the development of America's economy.
- Compare and examine the historical trends in the economic development of the United States.

**ECONM201 - Principles of Microeconomics**

- Distinguish how changes in opportunity cost affect decisions on the Micro level.
- Explain to a non-economist the real economic consequences of scarcity and what it means for markets to fail.
- Discuss the effects of public policy (price controls and rationing) upon markets and the general public interest.

**ECONM202 - Principles of Macroeconomics**

- demonstrate an understanding of major macroeconomics problems and issues in their historical, contemporary, geographical contexts or future implications.
- demonstrate an understanding of the value of the Economy as a whole and relate it to their life, their country, and the world.

- demonstrate an understanding of the basic macroeconomic principles, theories, and applications under the paradigm of the Classical and the Keynesian models, as well as AS-AD model. Some advance analytical and data collection ability will also be demonstrated.

### ECONM202H - Honors: MacroEconomics

- demonstrate an understanding of major problems and issues in their historical, contemporary, geographical contexts or future implications.
- demonstrate an understanding of the value of the Economy as a whole and relate it to their life, their country, and the world.
- demonstrate a complete understanding of the basic macroeconomic principles, theories, and applications under the paradigm of the Classical and the Keynesian models, as well as AS-AD model. Some advance analytical and data collection ability will also be demonstrated.

## Education

### CLO

#### EDUM02 - Intro to Elementary Teaching

- complete 45 hours of field observation.
- recognize and describe variations in student learning styles and effective strategies used by teachers to accommodate these differences.

#### EDUM08 - Multicultural Children's Art

- develop an environment that honors the diversity of the learning community through empowerment, equity, respect, and dignity.
- demonstrate their understanding of developmentally appropriate art experiences for young children and relevant curriculum planning principles.
- demonstrate their understanding of the visual arts content standards and relevant curriculum planning principles by developing lesson plans appropriate for children of various age groups (preschool, kindergarten, elementary, middle school, and/or high school).

#### EDUM10 - Developing Literacy

- demonstrate knowledge of, and appreciation for, culturally and linguistically diverse literature and language, focusing on the development of children's skills in reading, composition, and spelling to enhance their education and help them achieve or surpass grade-level expectations.

#### EDUM80 - Internship in Education

- Develop on-the-job learning objectives that demonstrate new and expanded learning at the work site that directly relate to the student's educational or occupational goal (major or career).
- Demonstrate successful workplace human dynamics, which may include: working as part of a team, following implicit and explicit instructions including company policies and procedures, and practicing work ethics.
- Demonstrate appropriate work skills such as communication, problem solving, decision making, teamwork, self-management, initiative, and/or technical skills that are gained as a result of new and expanded learning at the worksite.
- Organize and maintain occupational work experience records, including time sheets, a consultation record, and learning objective proposals, evaluation, and documentation.
- Appraise and evaluate the occupational work experience situation as it applies to the student's educational or occupational goals (major or career) in written or verbal format in the form of a paper, project, or presentation.

## Ethnic Studies

### CLO

#### ETHSM01 - Intro to Chicana/o Studies

- describe events critical in Chicana/o history, culture and intellectual traditions, with an emphasis on liberation, self-determination and agency.
- analyze core concepts of Chicana/o Studies such as race, racialization, Eurocentrism and white supremacy.
- interpret how resistance, social justice, and liberation as experienced by the Chicana/o community are connected to current societal issues.

#### ETHSM10 - African American Studies

- analyze contemporary issues using African American Studies theories and methodology.
- analyze core concepts of African American Studies such as race, racialization, discrimination and white supremacy.
- interpret how resistance, social justice, and civil rights as experienced by the African American community are connected to current societal issues.
- describe events critical in African American history, culture and intellectual traditions, with an emphasis on liberation, self-determination and agency.

#### ETHSM20 - AAPI Studies

- analyze core concepts of Asian American and Pacific Islander Studies such as race, racialization, immigration, discrimination and white supremacy.
- describe events critical in Asian American and Pacific Islander history, culture and intellectual traditions, with an emphasis on liberation, self-determination and agency.
- interpret how resistance, social justice, and civil rights as experienced by the Asian American and Pacific Islander community are connected to current societal issues.

### ETHSM40 - Introduction to Ethnic Studies

- apply critical frameworks and core concepts of Ethnic Studies such as decolonization, racialization, and intersectionality.
- identify the cultural, political, historical, economic, and institutional factors affecting the social construction of race and ethnicity.
- interpret how social justice and liberation as experienced by Native Americans, African Americans, Asian Americans and the Chicana/o community are connected to current societal issues.

### ETHSM50 - Intro Central American Studies

- analyze core concepts of Central American Studies such as race, racialization, Eurocentrism and white supremacy.
- describe events critical in Central American history, culture, and identity, with an emphasis on human rights, community grassroots organizing , and liberation.
- interpret how social movements, social justice, and resistance as experienced by the Central American community are connected to U.S policies, transborder studies, and transnational migration.

## French

### CLO

#### FRENM80 - Internship in French

- demonstrate contemporary and relevant work experience in the field.

#### FRENM100 - Elementary French I

- demonstrate some knowledge and understanding of the cultures of the French-speaking regions studied.
- begin to conduct simple, short interpersonal communications in the language, such as practical dialogues, in both oral and written form in the present tense.
- demonstrates comprehension of intermediate-level authentic texts [reading, listening, and viewing] on day to day activities, such as advertisements, applications, instructions, articles, and schedules.
- describe familiar events and present personal information about daily life topics (family, school, activities, likes/dislikes) in both oral and written form in the present tense.

#### FRENM110 - Elementary French II

- demonstrate some knowledge and understanding of the cultures of the French-speaking regions studied.
- conduct simple, short interpersonal communications in the language, such as practical dialogues, in both oral and written form in the present and past tenses.
- demonstrates comprehension of intermediate-advanced level authentic texts [reading, listening, and viewing] on day to day activities, such as advertisements, applications, instructions, articles, and schedules.
- describe familiar events and present personal information about daily life topics (family, school, activities, likes/dislikes) in both oral and written form in the present and past tenses.

#### FRENM122 - Independent Study - French

- analyze new information, practices, or research in the French discipline and utilize those findings in further research or creative projects.

## German

### CLO

#### GERMM80 - Internship in German

- demonstrate contemporary and relevant work experience in the field.

#### GERMM100 - Elementary German I

- demonstrate some knowledge and understanding of the cultures of the German-speaking regions studied.
- begin to conduct simple, short interpersonal communications in the language, such as practical dialogues, in both oral and written form in the present tense.
- demonstrates comprehension of intermediate-level authentic texts [reading, listening, and viewing] on day to day activities, such as advertisements, applications, instructions, articles, and schedules. will be able to identify the main idea and supporting points of readings in the target language

- describe familiar events and present personal information about daily life topics (family, school, activities, likes/dislikes) in both oral and written form in the present tense.

### GERMM110 - Elementary German II

- demonstrate some knowledge and understanding of the cultures of the German-speaking regions studied.
- conduct simple, short interpersonal communications in the language, such as practical dialogues, in both oral and written form in the present and past tenses.
- demonstrates comprehension of intermediate-advanced level authentic texts [reading, listening, and viewing] on day to day activities, such as advertisements, applications, instructions, articles, and schedules.
- describe familiar events and present personal information about daily life topics (family, school, activities, likes/dislikes) in both oral and written form in the present and past tenses.

### GERMM122 - Independent Study - German

- analyze new information, practices, or research in the German discipline and utilize those findings in further research or creative projects.

## History

### CLO

#### HISTM25 - History of the United States

- Students completing HIST M25 will be able to critically evaluate a historical primary source document.
- Students completing HIST M25 will be able to identify the purpose for the study of the history of the United States.
- Students completing HIST M25 will be able to demonstrate an understanding of the contributions that individuals made to the development of United States history.
- Students completing HIST M25 will be able to explain the significant themes, issues, and contributions identified in the study of United States history.

#### HISTM25H - Honors: History of the U.S

- Explain the purpose for the study of the history of the United States
- Explain the contributions that individuals made to the development of study of United States history.
- Explain the significant themes, issues, and contributions identified in the study of United States history.

#### HISTM80 - Internship in History

- demonstrate work experience pertaining to History.

#### HISTM122 - Independent Studies-History

- analyze new data and conduct further research to assess the accuracy of their information and findings.

#### HISTM130 - U.S. History thru Recon

- demonstrate the ability to contextualize and interpret primary and secondary texts, images, or audio sources, and to compose an argument which uses them, as appropriate, for support in understanding the History of the United States to 1877.
- identify connections between the History of the United States to 1877 and current issues in society today, thus preparing students for the challenges and responsibilities of life and change in American society and within the global community.

#### HISTM131 - African American Hist to 1877

- critically evaluate a historical primary source document.
- perform at an introductory level the skills utilized by historians within their discipline thus contributing to their skills in critical thinking, writing, speaking, and listening.
- identify connections between African American history and their current roles and challenges in the United States today, thus preparing students for the challenges and responsibilities of life and change in American society and within the global community.
- demonstrate an understanding of the major themes in African American history within the social, political, and economic transformation of United States history to 1877.

#### HISTM133 - History of Mexican Americans

- identify connections between Mexican American history and their current roles and challenges in the United States today, thus preparing students for the challenges and responsibilities of life and change in American society and within the global community.
- demonstrate the ability to contextualize and interpret primary and secondary texts, images, or audio sources, and to compose an argument which uses them, as appropriate, for support in understanding the History of Mexican Americans in the United States

#### HISTM135 - Native American History/Cult

- identify connections between Native American history and their current roles and challenges in the United States today, thus preparing

students for the challenges and responsibilities of life and change in American society and within the global community.

- demonstrate the ability to contextualize and interpret primary and secondary texts, images or audio sources and to compose an argument which uses them for support in understanding Native American History.

### **HISTM137 - History of American Women**

- demonstrate the ability to contextualize and interpret primary and secondary texts, images, or audio sources, and to compose an argument which uses them for support in understanding the History of American women in the United States.
- Identify connections between American womens' history and their current roles and challenges in the United States today, thus preparing students for the challenges and responsibilities of life and change in American society and within the global community.

### **HISTM137H - Honors: History American Women**

- critically evaluate a historical primary source document.
- explain significant themes, issues, and contributions identified in the study of the Women in American History.
- demonstrate an understanding of the contributions that individuals made to the development of the History of American Women.
- identify the purpose of the study of the history of Women in American History.

### **HISTM140 - U.S. History since 1865**

- demonstrate the ability to contextualize and interpret primary and secondary texts, images and audio sources, and to compose an argument which uses them for support in understanding United States History since 1865.
- identify connections between the History of the United States since 1865 and current issues in the United States today, thus preparing students for the challenges and responsibilities of life and change in American society and within the global community.

### **HISTM141 - African American History**

- perform at an introductory level the skills utilized by historians within their discipline thus contributing to their skills in critical thinking, writing, speaking and listening.
- identify connections between African American history and their current roles and challenges in the United States today, thus preparing students for the challenges and responsibilities of life and change in American society and within the global community.
- demonstrate an understanding of the major themes in African American history within the social, political, and economic transformation of United States history to 1877.

### **HISTM143 - History of California**

- explain the significant themes, issues, and contributions identified in the study of California history.
- identify the value of the study of California history.
- demonstrate an understanding and appreciation of the contributions that individuals made to the development of California history.

### **HISTM145 - Race & Ethnicity in Amrcn Hist**

- compose an argument contextualizing primary and secondary sources regarding the history of race and ethnicity in the US.
- identify connections between the history of race and ethnicity and issues in the United States today.

### **HISTM150 - World Hist: Prehistory to 1500**

- compose an argument contextualizing primary and secondary sources regarding world history from prehistory to 1500 C.E.
- identify connections between world history from prehistory to 1500 C.E. and their current roles and challenges in the United States today.

### **HISTM152 - History of Asia to 1600**

- compose an argument contextualizing primary and secondary sources regarding the history of Monsoon Asia from prehistory to 1600.
- identify connections between Monsoon Asian history and the students' current role in the world today.

### **HISTM160 - World History 1450 to Present**

- compose an argument contextualizing primary and secondary sources regarding world history from 1450 to the present.
- identify connections between world history of the past and the students' current roles in the world today

### **HISTM162 - Hist of Asia: 1600 to Present**

- compose an argument contextualizing primary and secondary sources regarding the history of Monsoon Asia from 1600 to the present.
- identify connections between Monsoon Asian history and the students' current role in the world today.

### **HISTM164 - History of Latin America**

- compose an argument contextualizing primary and secondary sources regarding the history of Latin America.
- identify connections between Latin American history and living in the United States today.

**HISTM170 - Western Civilization to 1600**

- compose an argument contextualizing primary and secondary sources regarding the history of Western civilization from prehistory to 1600.
- identify connections between Western civilizations from prehistory to 1600 and life in the United States today.

**HISTM180 - Western Civilization from 1600**

- compose an argument contextualizing primary and secondary sources regarding the history of Western civilization from 1600 to the present.
- identify connections between Western civilization of the past and the students' current role in the world today.

**Hospitality****CLO****HOSPM80 - Internship In Hospitality**

- demonstrate contemporary and relevant work experience in the hospitality field.

**HOSPM100 - Introduction to Hospitality**

- identify and explain the basic concepts and practices of the management of hospitality staff, upkeep and sanitary standards of hospitality facilities.
- identify and explain the basic concepts and practices of customer service, marketing, sales, accounting, purchasing, production, and operations in the hospitality industry.

**HOSPM120 - Hospitality Cost Control**

- identify and explain the basic financial concepts and practices of the hospitality industry.
- develop a budget that addresses food, beverage, labor and other costs within a hospitality operation.

**HOSPM130 - Intro to Food Beverage Mgmt**

- identify the basic concepts and practices of commercial and institutional food and beverage facilities.
- explain how these concepts and practices work together to contribute to a smoothly run commercial and institutional food and beverage facility.

**HOSPM140 - Introduction to Hotel Mgmt**

- identify and explain the basic concepts and practices of the hotel industry.
- explain how these concepts and practices work together to contribute to a smoothly run hotel facility.

**HOSPM200 - Intro to Event Management**

- identify and explain the basic concepts and practices of event management and operations.
- identify and explain the basic concepts and practices of event planning, client management, attendee engagement, cultural/economic trends, and career opportunities in the event industry.

**Italian****CLO****ITALM80 - Internship in Italian**

- demonstrate work experience pertaining to the field.

**ITALM100 - Elementary Italian I**

- demonstrate some knowledge and understanding of the cultures of the Italian-speaking regions studied.
- begin to conduct simple, short interpersonal communications in the language, such as practical dialogues, in both oral and written form in the present tense.
- demonstrates comprehension of intermediate-level authentic texts [reading, listening, and viewing] on day to day activities, such as advertisements, applications, instructions, articles, and schedules.
- describe familiar events and present personal information about daily life topics (family, school, activities, likes/dislikes) in both oral and written form in the present tense.

**ITALM110 - Elementary Italian II**

- demonstrate some knowledge and understanding of the cultures of the Italian-speaking regions studied.
- conduct simple, short interpersonal communications in the language, such as practical dialogues, in both oral and written form in the present and past tenses.

- demonstrates comprehension of intermediate-advanced level authentic texts [reading, listening, and viewing] on day to day activities, such as advertisements, applications, instructions, articles, and schedules.
- describe familiar events and present personal information about daily life topics (family, school, activities, likes/dislikes) in both oral and written form in the present and past tenses.

### ITALM122 - Independent Study - Italian

- analyze new information, practices, or research in the Italian discipline and utilize those findings in further research or creative projects.

## Japanese

### CLO

#### JAPNM80 - Internship in Japanese

- demonstrate relevant work experience in the field.

#### JAPNM100 - Elementary Japanese I

- demonstrate some knowledge and understanding of the cultures of the Japanese-speaking regions studied.
- begin to conduct simple, short interpersonal communications in the language, using mostly word lists and some highly practiced phrases in both oral and written form in the present tense.
- demonstrates comprehension of beginning-level authentic texts [reading, listening, and viewing] on day to day activities, such as advertisements, applications, instructions, articles, and schedules.
- describe familiar events and present personal information about daily life topics (family, school, activities, likes/dislikes) using mostly word lists and some highly practiced phrases in both oral and written form in the present tense.

#### JAPNM110 - Elementary Japanese II

- demonstrate some knowledge and understanding of the cultures of the Japanese-speaking regions studied.
- conduct simple, short interpersonal communications in the language using word lists, mostly practiced phrases, and some simple sentences, in both oral and written form in the present and past tenses.
- demonstrates comprehension of intermediate-advanced level authentic texts [reading, listening, and viewing] on day to day activities, such as advertisements, applications, instructions, articles, and schedules.
- describe familiar events and present personal information about daily life topics (family, school, activities, likes/dislikes) using mostly phrases and highly practiced simple sentences in both oral and written form in the present and past tenses.

#### JAPNM122 - Independent Study - Japanese

- give the student increased insight into Japanese literature, and thereby into the Japanese peoples and their cultures.
- develop further the student's oral fluency, interpretive skill and writing ability through intensive study of more sophisticated Japanese literature.
- increase the student's appreciation of various genres of Japanese literature.

## Latin

### CLO

#### LATM100 - Elementary Latin I

- demonstrate some knowledge and understanding of the cultures of the Latin speaking regions studied.
- begin to conduct simple, short interpersonal communications in the language, such as practical dialogues, in both oral and written form in the present tense.
- demonstrates comprehension of beginning-level graded texts.
- describe familiar events and present personal information about daily life topics (family, school, activities, likes/dislikes) in both oral and written form in the present tense.

## Philosophy

### CLO

#### PHILM01 - Intro to Philosophy

- identify, explain, and trace the historical development of traditional positions.
- analyze and evaluate traditional arguments for and against traditional positions.

#### PHILM01H - Honors: Intro. to Philosophy

- identify, explain, and trace the historical development of traditional positions.

- analyze and evaluate traditional arguments for and against traditional positions.
- incorporate original source material into their philosophical analysis and interpretation of traditional philosophical positions.

**PHILM02 - Introduction to Ethics**

- recognize and distinguish various major moral ethical theories assumed in moral reasoning and judgment.
- evaluate the relevance of ethical topics.

**PHILM02H - Honors: Introduction to Ethics**

- recognize and distinguish various major moral ethical theories assumed in moral reasoning and judgment
- evaluate the relevance of ethical topics.
- incorporate original source material into their philosophical analysis and interpretation of traditional philosophical positions.

**PHILM03 - Intro to Social/Political Phil**

- compare and contrast different forms of government and compare them from moral point of view.

**PHILM05 - Crit Think & Analy Writing**

- compare and contrast different forms of government and compare them from a moral point of view.
- write an analytic paper that demonstrates the ability to focus on a clearly developed thesis, supports the thesis with clear argumentation, and anticipates potential counterarguments.

**PHILM07 - Introduction to Logic**

- demonstrate the ability to critically assess arguments expressed in public discourse.

**PHILM08 - Philosophy of Religion**

- compare and contrast ideas in eastern and western religions and spirituality.

**PHILM09 - Introduction to Symbolic Logic**

- demonstrate their ability to evaluate the validity or invalidity of deductive arguments.

**PHILM11 - World Religions: West**

- compare and contrast current Western Religious beliefs and practices.

**PHILM12 - World Religions: East**

- compare and contrast current Eastern Religious beliefs and practices.

**PHILM13 - The Classical Mind**

- analyze and evaluate traditional arguments for and against traditional positions from classical philosophy.

**PHILM14 - The Modern Mind**

- analyze and evaluate traditional arguments for and against traditional positions from modern philosophy.

**PHILM21 - Ethics of Living and Dying**

- articulate critically the various biomedical issues and formulate their own individual advanced directive.
- identify ethical issues involved in biomedical research and decision-making.

**PHILM22 - Ethics of Business**

- evaluate professional decisions from various ethical frameworks.
- identify ethical theories involved in professional decision making scenarios.

**PHILM80 - Internship in Philosophy**

- demonstrate contemporary and relevant work experience in the philosophy field.

**PHILM122 - Independent Study-Phil**

- analyze and evaluate a philosophical argument from their chosen research plan.

**PHILM400 - Ethic in Emerging Technology**

- evaluate policies, practices, and decisions in emerging technologies using various ethical frameworks.
- identify ethical frameworks shaping research, funding, and applications of emerging technologies.

<p><b>Political Science</b></p> <p><b>CLO</b></p> <p><b>POLSM01 - Introduction to Politics</b></p> <ul style="list-style-type: none"> <li>• use evidence (qualitative or quantitative) to defend a position within the context of Introduction to Politics</li> <li>• evaluate arguments presented in a primary / secondary source and use those arguments to evaluate current events for a topic related to Introduction to Politics</li> </ul> <p><b>POLSM02 - Comparative Politics</b></p> <ul style="list-style-type: none"> <li>• demonstrate a broad understanding of comparative politics covering the major theories, controversies, and methodologies within Comparative Politics</li> <li>• use evidence (qualitative or quantitative) to defend a position within the context of Comparative Politics</li> <li>• evaluate arguments presented in a primary / secondary source and use those arguments to evaluate current events for a topic related to Comparative Politics</li> </ul> <p><b>POLSM03 - American Government &amp; Politics</b></p> <ul style="list-style-type: none"> <li>• use evidence (qualitative or quantitative) to defend a position within the context of American Government</li> <li>• evaluate arguments presented in a primary / secondary source and use those arguments to evaluate current events for a topic related to American Government</li> </ul> <p><b>POLSM03H - Honors: American Gov./Politics</b></p> <ul style="list-style-type: none"> <li>• use evidence (qualitative or quantitative) to defend a position within the context of American Government.</li> <li>• evaluate arguments presented in a primary / secondary source and use those arguments to evaluate current events for a topic related to American Government.</li> </ul> <p><b>POLSM04 - International Relations</b></p> <ul style="list-style-type: none"> <li>• demonstrate a broad understanding of comparative politics covering the major theories, controversies, and methodologies within International Relations.</li> <li>• use evidence (qualitative or quantitative) to defend a position within the context of International Relations.</li> <li>• evaluate arguments presented in a primary / secondary source and use those arguments to evaluate current events for a topic related to International Relations.</li> </ul> <p><b>POLSM05 - National, State &amp; Local Politic</b></p> <ul style="list-style-type: none"> <li>• use evidence (qualitative or quantitative) to defend a position within the context of National, State, and Local Politics.</li> <li>• evaluate arguments presented in a primary / secondary source and use those arguments to evaluate current events for a topic related to National, State, and Local Politics.</li> </ul> <p><b>POLSM06 - Intro to Political Theory</b></p> <ul style="list-style-type: none"> <li>• use evidence (qualitative or quantitative) to defend a position within the context of Political Theory.</li> <li>• evaluate arguments presented in a primary / secondary source and use those arguments to evaluate current events for a topic related to Political Theory.</li> </ul> <p><b>POLSM09 - Intro to Poli Sci Rsrch Mthds</b></p> <ul style="list-style-type: none"> <li>• use evidence (qualitative or quantitative) to defend a position within the context of Research Methods.</li> <li>• evaluate arguments presented in a primary / secondary source and use those arguments to evaluate current events for a topic related to Research Methods.</li> </ul> <p><b>POLSM80 - Internship in Poli Science</b></p> <ul style="list-style-type: none"> <li>• demonstrate contemporary and relevant work experience in the political science field.</li> </ul> <p><b>POLSM122 - Indep. Study-Political Science</b></p> <ul style="list-style-type: none"> <li>• evaluate arguments presented in a primary / secondary source and use those arguments to evaluate current events for any topic in political science.</li> <li>• use evidence (qualitative or quantitative) to defend a position related to any topic in Political Science.</li> </ul>
<p><b>Psychology</b></p> <p><b>CLO</b></p> <p><b>PSYM01 - Intro to Psychology</b></p>

- demonstrate an understanding of perspectives, theories, and core concepts in Psychology.
- recognize the impact and value of diversity on psychological research, theory, and application, including but not limited to: age, race, ethnicity, culture, gender, socioeconomic status, disability, and sexual orientation.

### PSYM01H - Honors: Intro to Psychology

- demonstrate an understanding of perspectives, theories, and core concepts in Psychology.
- recognize the impact and value of diversity on psychological research, theory, and application, including but not limited to: age, race, ethnicity, culture, gender, socioeconomic status, disability, and sexual orientation.

### PSYM02 - Intro Behav Neuroscien

- demonstrate an understanding of perspectives, theories, and core concepts in Behavioral Neuroscience.
- demonstrate an understanding of the way that the sciences in particular neuroscience describe the universe and the nature of scientific inquiry (scientific paradigms and methods)
- recognize the impact and value of diversity on behavioral neuroscience research, theory, and application, including but not limited to: age, race, ethnicity, culture, gender, socioeconomic status, disability, and sexual orientation.

### PSYM02H - Honors: Intro Behav Neuroscien

- demonstrate an understanding of perspectives, theories, and core concepts in Behavioral Neuroscience.
- demonstrate an understanding of the way that the sciences in particular neuroscience describe the universe and the nature of scientific inquiry (scientific paradigms and methods)
- recognize the impact and value of diversity on behavioral neuroscience research, theory, and application, including but not limited to: age, race, ethnicity, culture, gender, socioeconomic status, disability, and sexual orientation.

### PSYM03 - Personal Growth & Soc Awarenes

- recognize the impact and diversity in Personal Growth and Social Awareness research, theory, and application, including but not limited to: age, race, ethnicity, culture, gender, socioeconomic status, disability, and sexual orientation.
- to demonstrate an understanding of perspectives, theories, and core concepts in Personal Growth and Social Awareness Psychology.

### PSYM04 - Child Psychology

- demonstrate an understanding of perspectives, theories, and core concepts in Child Psychology.
- recognize the impact and value of diversity on Child Psychology research, theory, and application, including but not limited to: age, race, ethnicity, culture, gender, socioeconomic status, disability, and sexual orientation.

### PSYM05 - Social Psychology

- demonstrate an understanding of perspectives, theories, and core concepts in Social Psychology
- recognize the impact and value of diversity on Social Psychology research, theory, and application, including but not limited to: age, race, ethnicity, culture, gender, socioeconomic status, disability, and sexual orientation.

### PSYM06 - Intro Behav Resrch Meth

- demonstrate an understanding of perspectives, theories, and core concepts in behavioral research methods.
- evaluate the validity of scientific studies and claims with scientific principles.
- demonstrate proficiency in APA-style
- recognize the impact and value of diversity on behavioral research, theory, and application, including but not limited to age, race, ethnicity, culture, gender, socioeconomic status, disability, and sexual orientation.

### PSYM07 - Develp Psych-Lifespan

- demonstrate an understanding of perspectives, theories, and core concepts in Developmental Psychology.
- recognize the impact and value of diversity on Developmental Psychology research, theory, and application, including but not limited to: age, race, ethnicity, culture, gender, socioeconomic status, disability, and sexual orientation.

### PSYM08 - Abnormal Psychology

- demonstrate an understanding of perspectives, theories, and core concepts in Abnormal Psychology.
- recognize and understand the impact and value of diversity on Abnormal Psychology research, theory, and application, including but not limited to: age, race, ethnicity, culture, gender, socioeconomic status, disability, and sexual orientation.

### PSYM10 - Dying and Death

- demonstrate an understanding of perspectives, theories, and core concepts in Dying and Death Psychology.
- recognize the impact and diversity in Dying and Death Psychology research, theory, and application, including but not limited to: age, race, ethnicity, culture, gender, socioeconomic status, disability, and sexual orientation.

### PSYM13 - Human Sexuality

- demonstrate an understanding of perspectives, theories, and core concepts in Human Sexuality.
- recognize and understand the impact and value of diversity on Human Sexuality research, theory, and application, including but not limited to: age, race, ethnicity, culture, gender, socioeconomic status, disability, and sexual orientation.

### PSYM14 - Cross-Cultural Psychlgy

- recognize the impact and value of diversity on Cross-Cultural Psychology research, theory, and application, including but not limited to: age, race, ethnicity, culture, gender, socioeconomic status, disability, and sexual orientation.
- demonstrate an understanding of perspectives, theories, and core concepts in Cross-Cultural Psychology.

### PSYM16 - Personality Theories

- demonstrate an understanding of perspectives, theories, and core concepts in Personality Psychology..
- recognize and understand the impact and value of diversity on Personality Psychology research, theory, and application, including but not limited to: age, race, ethnicity, culture, gender, socioeconomic status, disability, and sexual orientation.

### PSYM80 - Internship in Psychology

- demonstrate work experience pertaining to Psychology.

### PSYM122 - Independent Study - Psychology

- analyze new information, practices, or research in the Psychology discipline and utilize those findings in further research or creative projects.
- apply the knowledge acquired to other aspects of Psychology.
- formulate statements designed to assess the applicability of their knowledge to other related topics.

### PSYM125 - Statistics for Behav & Soc Sci

- apply statistical techniques and software to analyze and interpret applications based on data from at least four of the social and behavioral sciences and related fields, including but not limited to psychology, sociology, education, criminal justice, health science, economics, business, anthropology, and political science.
- make statistical inference using estimation, hypothesis testing, correlation, and regression.
- recognize the impact and value of diversity on statistical research, theory, and application, including but not limited to: age, race, ethnicity, culture, gender, socioeconomic status, disability, and sexual orientation.

## Registered Behavior Technician

### CLO

#### RBTM01 - RBT: Knowledge Skills

- describe Applied Behavior Analytic teaching methods.
- demonstrate data collection used across skill acquisition and behavioral needs.

#### RBTM01L - RBT: Clinical Applications

- implement treatment plans with individuals of all ages who could be typically or atypically developing.

## Social Justice Studies

### CLO

#### SJSM110 - Intro to Social Just Studies

- analyze the intersection of race and racism in relation to markers of inequality such as: class, gender, sexuality, religion, spirituality, national origin, immigration status, ability, tribal citizenship, sovereignty, or language.
- describe socially just resolutions concerning discriminatory ideologies and practices that minority groups face.
- describe the consequences faced by minority groups due to the politically and socially created injustices they face today.

#### SJSM120 - Intro to Women's Studies

- analyze the relationships between gender, identity and power.
- describe specific issues relevant to women's lives including: women's health, reproductive rights, sexuality, identity, violence, work, globalization and inequality.
- identify different types of feminism as historically and currently understood and defined.

#### SJSM130 - Intro to LGBTQ Studies

- analyze current issues facing the LGBTQ+ community using feminist theory, gender theory, and queer theory.

- analyze how laws, policies, and practices of discrimination impact the LGBTQ community.
- define and correctly utilize terms related to sexual identity in their historical and political contexts.

## Social Work/Human Services

### CLO

#### SWHSM110 - Introduction to Social Work

- discuss theories and models of social work practice as used by human service specialists in their work.
- explain the micro-influences and macro-influences impacting social work in the United States and globally.
- outline the processes and desired outcomes of social work and human services in the United States.

#### SWHSM120A - Soc Work/Hum Serv Seminar

- apply the Code of Ethics (e.g., NASW - National Association of Social Workers or NOHS - National Organization for Human Services) to field work experience.
- explain how confidentiality, social justice, and issues of intersectionality (race, class, gender) pertain to the daily practice of social work and human services.
- identify the knowledge, skills, and abilities necessary for a position in entry-level social services.

#### SWHSM120B - Soc Work/Hum Serv Fieldwork

- describe the major components of social work and human services relating to an agency's procedures and practices.
- identify the culturally sensitive perspectives and practices that are necessary for social work practice.
- implement professional and ethical treatment planning and case management in the social work/human services field.

## Sociology

### CLO

#### SOCM80 - Internship in Sociology

- analyze the social dynamics of a workplace setting using Sociological theory and understanding.

#### SOCM110 - Introduction to Sociology

- identify and critically assess the social factors that contribute to contemporary inequalities that shape life chances.
- analyze the dichotomy between human agency and social structure.
- assess how culture and socialization shape the lives of individuals and groups in society.

#### SOCM110H - Honors: Intro to Sociology

- analyze the dichotomy between human agency and social structure.
- assess current issues in society, using a sociological lens, describing the intersection between structure and agency. (Honors Sections SLO)
- assess how culture and socialization shape the lives of individuals and groups in society.
- identify and critically assess the social factors that contribute to contemporary inequalities that shape life chances.

#### SOCM115 - Social Problems

- apply sociological theories to the study of social problems.
- assess individual and/or collective efforts to confront social problems, such as policy change, movements, and other forms of activism.
- identify current social problems and the social, cultural, and historical factors influencing them.

#### SOCM120 - Intro to Research Methods

- evaluate which specific methods, whether quantitative or qualitative, are most appropriate in answering particular research questions .
- develop a scientifically sound research design to study society.
- assess the ethical implications of sociological research.

#### SOCM122 - Independent Study - Sociology

- apply Sociological understanding via theoretical concepts and practice to a supervised research area.

#### SOCM125 - Statistics for Behav & Soc Sci

- apply statistical techniques and software to analyze and interpret applications based on data from at least four of the social and behavioral sciences and related fields, including but not limited to psychology, sociology, education, criminal justice, health science, economics, business, anthropology, and political science.
- make statistical inference using estimation, hypothesis testing, correlation, and regression.
- recognize the impact and value of diversity on statistical research, theory, and application, including but not limited to: age, race, ethnicity, culture, gender, socioeconomic status, disability, and sexual orientation.

### **SOCM130 - Intro to Marriage/Family**

- define various models of a family and compare patterns cross-culturally.
- examine gender role dynamics, power, and the division of labor in the family.
- examine both micro and macro influences that impact family dynamics.
- assess changing trends and patterns in the American family.

### **SOCM140 - Introduction to Gender**

- analyze the impact of economic and political change on gender expectations and practices.
- apply feminist scholarship to an analysis of gender, including an examination of the construction of femininities and masculinities.
- interpret the ways in which gender intersects with race, ethnicity, class, sexualities, age, and other socially constructed categories of difference.

### **SOCM150 - Introduction-Race & Ethnicity**

- analyze the consequences of racism in contemporary society.
- distinguish between race and ethnicity in contemporary society.
- explain race and ethnicity as a social construction.
- interpret ways that race intersects with ethnicity, class, gender, and sexuality in social relationships and power dynamics.

### **SOCM160 - Introduction to Criminology**

- analyze criminal behaviors using classical and modern theories of crime.
- define the social environmental issues that produce various kinds of crime (violent, property, white collar, etc)
- explain the intersections of class, race and gender to the phenomenon of criminal behavior.
- identify processes in the criminal justice system that affect outcomes for accused and convicted persons in the system.

### **SOCM212 - Intro to Soc of Religion**

- analyze the socializing effects of religion on society.
- explain how intersectional issues that produce social inequality (eg. class, race, gender, sexuality, etc) affect religious expectations in groups.
- identify social changes that bring about increased or decreased levels of religiosity in US society and elsewhere.

### **SOCM216 - Sociology of Deviant Behavior**

- analyze deviant behaviors using classical and modern social theories of deviance and crime.
- define the social-environmental issues that produce various kinds of deviance (family abuse, rape and sexual assault, drug and alcohol abuse, sexual deviance, etc).
- explain the intersections of class, race and gender to the phenomenon of deviant behavior.

### **SOCM218 - Organized Crime & Terrorism**

- assess the motivations of different types of terrorists in light of their desired outcomes.
- distinguish the differences in motivation between organized crime and terrorist activities
- identify the types of criminal activities accomplished by organized criminal groups.
- identify the various options that governments have in fighting organized criminals and terrorists.

## **Spanish**

### **CLO**

**SPANM80 - Internship in Spanish**

- demonstrate contemporary and relevant work experience in the field.

### SPANM100 - Elementary Spanish I

- demonstrate some knowledge and understanding of the cultures of the Spanish-speaking regions studied.
- begin to conduct simple, short interpersonal communications in the language, such as practical dialogues, in both oral and written form in the present tense.
- demonstrates comprehension of intermediate-level authentic texts [reading, listening, and viewing] on day to day activities, such as advertisements, applications, instructions, articles, and schedules.
- describe familiar events and present personal information about daily life topics (family, school, activities, likes/dislikes) in both oral and written form in the present tense.

### SPANM110 - Elementary Spanish II

- demonstrate some knowledge and understanding of the cultures of the Spanish-speaking regions studied.
- conduct simple, short interpersonal communications in the language, such as practical dialogues, in both oral and written form in the present and past tenses.
- demonstrates comprehension of intermediate-advanced level authentic texts [reading, listening, and viewing] on day to day activities, such as advertisements, applications, instructions, articles, and schedules.
- describe familiar events and present personal information about daily life topics (family, school, activities, likes/dislikes) in both oral and written form in the present and past tenses.

### SPANM110S - Elementary Spanish for Spanish

- demonstrate some knowledge and understanding of the cultures of the Spanish-speaking regions studied.
- conduct simple, short interpersonal communications in the language, such as practical dialogues, in both oral and written form in the present and past tenses.
- demonstrates comprehension of intermediate-advanced level authentic texts (reading, listening, and viewing) on day to day activities, such as advertisements, applications, instructions, articles, and schedules.
- describe familiar events and present personal information about daily life topics (family, school, activities, likes/dislikes) in both oral and written form in the present and past tenses.

### SPANM122 - Independent Study - Spanish

- analyze new information, practices, or research in the Spanish discipline and utilize those findings in further research or creative projects.

### SPANM200 - Intermediate Spanish I

- demonstrate some knowledge and understanding of the cultures of the Spanish-speaking regions studied.
- conduct interpersonal communications in the language, such as practical dialogues, in both oral and written form in all major time frames.
- demonstrates comprehension of advanced-level authentic texts [reading, listening, and viewing] on day to day activities, such as advertisements, applications, instructions, articles, and schedules.
- describe events and present information about some topics of general interest in both oral and written form in all major time frames.

### SPANM200S - Intermediate Spanish for Spani

- conduct interpersonal communications in the language, such as practical dialogues, in both oral and written form in all major time frames.
- demonstrate comprehension of advanced-level authentic texts (reading, listening, and viewing) on day to day activities, such as advertisements, applications, instructions, articles, and schedules.
- demonstrate some knowledge and understanding of the cultures of the Spanish-speaking regions studied.
- describe events and present information about some topics of general interest in both oral and written form in all major time frames.

### SPANM210 - Intermediate Spanish II

- demonstrate some knowledge and understanding of the cultures of the Spanish-speaking regions studied.
- conduct more elaborate interpersonal communications in the language, such as practical dialogues, in both oral and written form in all major time frames.
- demonstrates comprehension of higher advanced-level authentic texts [reading, listening, and viewing] on day to day activities, such as advertisements, applications, instructions, articles, and schedules.
- describe events and present information about some topics of general interest in both oral and written form in all major time frames.

## English/ESL, Student Conduct/BIT & Student Life

Engl as a second language

**CLO****ESLM01 - Beginning ESL**

- write paragraphs on various topics with correct grammar and sentence structure and recognize and correctly use basic English vocabulary.
- read and comprehend short, simple texts in English.

**ESLM03 - Advanced ESL**

- comprehend and analyze college-level texts.
- write a well-structured, concretely developed, grammatically correct multi-paragraph essay that utilizes a wide range of vocabulary in both informal and academic discussions.

**ESLM11 - Academic Read/Write I**

- read and identify the main ideas in pre-college level non-fiction articles from a variety of academic disciplines.
- write paragraphs and short essays on various topics using a variety of verb tenses, sentence structures, and academic vocabulary.

**ESLM12 - Academic Read/Write II**

- read and identify the main ideas and supporting details in pre-college level non-fiction articles from a variety of academic disciplines.
- write paragraphs and 3-5-paragraph essays on various topics using a variety of verb tenses, sentence structures, and academic vocabulary.

**ESLM13 - Academic Read/Write III**

- analyze, interpret, and summarize authentic, college-level texts from various academic genres and disciplines.
- write multiple-draft, source-based essays of at least 1200 words on various topics of historical, philosophical, and cultural importance using a variety of verb tenses, sentence structures, and academic vocabulary.

**ESLM40 - ESL Academic Oral Comm.**

- compose and present an appropriately organized speech that effectively integrates credible evidence to support claims made.
- identify and evaluate the critical elements of the communication process when critiquing speeches.

**ESLM901 - High-Beginning Noncredit ESL**

- comprehend and respond to simple oral questions and commands
- write grammatically correct simple and compound sentences

**ESLM902 - Low-Intermediate Noncredit ESL**

- write grammatically correct simple, compound, and complex sentences
- respond to oral presentations with relevant questions or answers

**ESLM903 - High-Intermed. Noncredit ESL**

- respond to oral presentations with relevant questions or answers
- write a unified paragraph using a topic sentence and correct grammar and sentence structure

**ESLM904 - Advanced Noncredit ESL**

- deliver an oral presentation in class.
- prepare a resume and job application materials.

**ESLM911 - Academic Read/Write I**

- read and identify the main ideas in pre-college level non-fiction articles from a variety of academic disciplines.
- write paragraphs and short essays on various topics using a variety of verb tenses, sentence structures, and academic vocabulary.

**ESLM912 - Academic Read/Write II**

- read and identify the main ideas and supporting details in pre-college level non-fiction articles from a variety of academic disciplines.
- write paragraphs and 3-5-paragraph essays on various topics using a variety of verb tenses, sentence structures, and academic vocabulary.

**ESLM913 - Academic Read/Write III**

- analyze, interpret, and summarize authentic, college-level texts from various academic genres and disciplines.

- write multiple-draft, source-based essays of at least 1200 words on various topics of historical, philosophical, and cultural importance using a variety of verb tenses, sentence structures, and academic vocabulary.

#### ESLM940 - ESL Academic Oral Comm.

- compose and present an appropriately organized speech that effectively integrates credible evidence to support claims made.
- identify and evaluate the critical elements of the communication process when critiquing speeches.

### English

#### CLO

##### ENGLM01A - English Composition

- write a thesis-driven essay that is (a) clearly organized, (b) is supported by relevant evidence, (c) uses academic prose, and (d) follows up-to-date MLA citation conventions.
- demonstrate critical reading, writing, thinking, and research skills through analysis, synthesis, and evaluation of a variety of material encompassing varying viewpoints.

##### ENGLM01AH - Honors: English Composition

- write a thesis-driven essay that is clearly organized, supported by relevant evidence, uses academic prose, and follows up-to-date MLA citation conventions.
- demonstrate critical reading, writing, thinking, and research skills through analysis, synthesis, and evaluation of a variety of material encompassing varying viewpoints.

##### ENGLM01B - Lit:Critical Thinking and Comp

- identify elements of literature in a specific work (character, setting, theme, plot, etc.) and explain their significance to the work.
- demonstrate advanced critical reading, writing, thinking, and research skills through interpretation, analysis, synthesis, and evaluation of a variety of material encompassing varying viewpoints.

##### ENGLM01BH - Honors Lit:Critical Think/Comp

- identify elements of literature in a specific work (character, setting, theme, plot, etc.) and explain their significance to the work.
- demonstrate advanced critical reading, writing, thinking, and research skills through interpretation, analysis, synthesis, and evaluation of a variety of material encompassing varying viewpoints.

##### ENGLM01C - Critical Thinking and Comp

- identify rhetorical elements in a specific work -- assumptions, argumentation, evidence, situation, appeals, etc. -- and explain their significance to the work.
- demonstrate advanced critical reading, writing, thinking, and research skills through analysis, synthesis, and evaluation of a variety of material encompassing varying viewpoints.

##### ENGLM01CH - Honors: Critical Thinking/Comp

- identify and discuss the thesis and main supporting points of a published essay and discuss the validity of its argument.
- demonstrate advanced critical reading, writing, thinking, and research skills through analysis, synthesis, and evaluation of a variety of material encompassing varying viewpoints.

##### ENGLM02 - Intro to College Writing

- write a short, thesis-driven essay organized into coherent paragraphs with clear, structurally varied sentences that follows the conventions of academic prose.
- comprehend, paraphrase, and summarize a variety of college-level readings.

##### ENGLM03 - Writing Skills

- draft, revise, and edit a short (1-3 page) essay to demonstrate the ability to write clear, coherent sentences free of basic errors such as run-ons, fragments, and agreement errors.
- identify the main idea and supporting points of short college-level readings.

##### ENGLM10A - Creative Writing

- write a story that effectively creates conflict, crisis, climax, and resolution.

##### ENGLM10B - Advanced Creative Writing

- demonstrate a personal writing style and use effective revision strategies in creative pieces.
- use research to evaluate contemporary publishing opportunities alongside compiling a representative portfolio of revised creative writing.

##### ENGLM13A - Survey of American Lit I

- identify and describe important issues, themes, and historical and cultural contexts in the works of American literature in the period.

### ENGLM13B - Survey of American Lit II

- identify and describe important issues, themes, and historical and cultural contexts in the works of American literature in the period.

### ENGLM14 - Introduction to Poetry

- identify the form and features of a poem and explain how these impact the poem's meaning on its own and in relation to its biographical, historical, and cultural contexts

### ENGLM15A - Survey of English Lit. I

- identify and discuss important issues, themes, and historical and cultural contexts in the works of British literature in the period.

### ENGLM15B - Survey of English Lit II

- identify and discuss important issues, themes, and historical and cultural contexts in the works of British literature in the period.

### ENGLM16 - Introduction to Fiction

- compare and contrast different authors' treatments of theme, character, and subject matter using evidence and analyzing it from specific works.

### ENGLM17 - Shakespeare

- Describe the characters and themes of a Shakespeare play in its historical and cultural contexts.
- identify and describe the metrical, structural, and thematic devices of Shakespeare's sonnets.

### ENGLM20 - Introduction to Drama

- compare and contrast different authors' treatment of staging and social, historical, philosophical, cultural, psychological, and aesthetic themes on specific works.

### ENGLM29A - Old Testament as Literature

- identify and describe the specific literary forms--heroic narrative, epic, narrative poetry, lyric poetry, biblical encomium--in the Old Testament.
- identify and describe the social, cultural, and literary contexts of the Old Testament.

### ENGLM29B - New Testament as Literature

- identify the specific literary forms--gospel, parable, narrative, sermon, epistle, oratory, apocalypse found in the New Testament.
- identify and describe the historical, social, political, cultural, and literary contexts of the New Testament.

### ENGLM30A - Masterpieces of World Lit I

- identify and discuss important issues, themes, and historical and cultural contexts in Western and non-Western works of world literature in the period.

### ENGLM30B - Masterpieces of World Lit II

- identify and discuss important issues, themes, and historical and cultural contexts in Western and non-Western works of world literature in the period.

### ENGLM40 - Children's Literature

- identify and describe the written and pictorial content, themes, and genres of selected works of children's literature and analyze their effects on the text.
- describe the impact of historical context on literary techniques and themes in children's literature.

### ENGLM47 - Literary Magazine Publication

- create and use criteria to evaluate original manuscript submissions and select the aesthetics of layout and design for publication.
- collaborate to edit and organize submissions and design elements into a cohesive journal or magazine.

### ENGLM80 - Internship in English

- demonstrate contemporary and relevant work experience in the field.

### ENGLM91AS - English Composition Support

- develop an individual learning plan to address gaps.

### ENGLM122 - Independent Study-English

- analyze new information, practices, or research in the English discipline and utilize those findings in further research or creative projects.

### ENGLM300 - Technical Writing

- compose texts appropriate to professional and technical writing.

**Humanities**

**CLO**

**HUMM07 - Survey of the Arts**

- identify and describe elements and techniques used to create a work of art.
- distinguish representative characteristics of the arts specific to a historical period.

**HUMM10A - Roots of the Humanities**

- identify and analyze significant works of art, philosophy, and literature, primarily but not exclusively in the Western tradition.
- demonstrate an understanding of other peoples by identifying and discussing significant values found in their cultures.

**HUMM10B - Humanities & the Modern World**

- identify and analyze significant works of art, philosophy, and literature, primarily but not exclusively in the Western tradition.
- demonstrate an understanding of other peoples by identifying and discussing significant values found in their cultures.

**HUMM11 - Conflict and Human Condition**

- identify causes that lead to conflict and assess the impact of social and physical conflict.
- analyze whether social or physical conflict is appropriate or necessary.

**HUMM14 - Humanities in the U.S.**

- identify past and present philosophical trends in the United States of America
- describe elements and techniques used to create work of arts in the United States of America

**HUMM80 - Internship in Humanities**

- Demonstrate appropriate work skills such as communication, problem solving, decision making, teamwork, self-management, initiative, and/or technical skills that are gained as a result of new and expanded learning at the worksite.

**HUMM122 - Independent Study - Humanities**

- analyze new information, practices, or research in the Humanities discipline and utilize those findings in further research or creative projects.

**ILO**

Default Program

**CLO**

No CLOs

**Physical Sciences & Career Education**

**Astronomy**

**CLO**

**ASTM01 - An Intro to Astronomy**

- Demonstrate an understanding of the Size, Scope, and Structure of the Solar System, Galaxy, and the Universe
- Cultivate problem solving and decision-making skills using the scientific method and its different parts to study astronomical phenomena.

**ASTM01L - Intro to Astronomy Lab**

- Demonstrate an understanding of the Size, Scope, and Structure of bodies in the Solar System, Galaxy, and Universe via lab exercises and observations.
- Cultivate problem solving and decision-making skills using the scientific method to evaluate experimental and observational results of astronomical phenomena

**ASTM80 - Internship in Astronomy**

- Develop on-the-job learning objectives that demonstrate new and expanded learning at the work site that directly relate to the student's educational or occupational goal (major or career).

- Demonstrate successful workplace human dynamics, which may include: working as part of a team, following implicit and explicit instructions including company policies and procedures, and practicing work ethics.
- Demonstrate appropriate work skills such as communication, problem solving, decision making, teamwork, self-management, initiative, and/or technical skills that are gained as a result of new and expanded learning at the worksite.
- Organize and maintain occupational work experience records, including time sheets, a consultation record, and learning objective proposals, evaluation, and documentation.
- Appraise and evaluate the occupational work experience situation as it applies to the student's educational or occupational goals (major or career) in written or verbal format in the form of a paper, project, or presentation.

### ASTM122 - Independent Study - Astronomy

- Demonstrate appropriate skills such as communication, problem solving, decision making, teamwork, self-management, initiative, and/or technical skills like programming, that are gained as a result of new and expanded learning.
- Develop learning objectives on a focused area of Astronomy research, and demonstrate expanded learning that directly relate to the student's educational or occupational goal (major or career).

## Chemistry

### CLO

#### CHEMM01A - General Chemistry I

- draw Lewis Structures, predict the shape and hybridization of central atoms, identify polar bonds and overall polarity, and use molecular orbital theory to describe orbital overlap and predict magnetic properties of molecules.
- summarize and explain the results of experiments in clear, scientific language.
- analyze measurements and understand how scientific data is properly recorded.
- understand how bonding theory allows chemists to explain and predict the properties of molecules, and how structure and function and reactivity are related.

#### CHEMM01AH - Honors: General Chemistry I

- draw Lewis Structures, predict the shape and hybridization of central atoms, identify polar bonds and overall polarity, and use molecular orbital theory to describe orbital overlap and predict magnetic properties of molecules.
- summarize and explain the results of experiments in clear, scientific language.
- analyze measurements and understand how scientific data is properly recorded.
- understand how bonding theory allows chemists to explain and predict the properties of molecules, and how structure and function and reactivity are related.

#### CHEMM01B - General Chemistry II

- quantitatively solve and demonstrate an understanding of various equilibrium problems involving acids and bases, buffered solutions, and titrations.
- balance chemical reactions, interpret data, and solve various stoichiometry problems which include limiting reactant problems, generating correct answers with appropriate significant figures.
- apply scientific methodology by developing hypotheses to explain observed chemical phenomena, testing these hypotheses by analysis of provided or acquired data to evaluate the validity and limitations of the hypotheses.
- use and interpret vocabulary related to chemical phenomena, solving problems applying chemical principles.
- understand how the theory of thermodynamics, kinetics and equilibrium allow chemists to explain a vast array of observations about molecules.
- assess the validity of their obtained experimental results, critique/analyze the data, and construct a formal laboratory report with their conclusions following the standard manuscript style prescribed by the National Science Foundation.

#### CHEMM07A - Organic Chemistry I

- demonstrate an understanding of organic structure by identifying and classifying specific structural characteristics of organic molecules containing multiple stereogenic centers, including absolute configuration of stereogenic centers, atomic orbital hybridizations, bond angles, functional groups, and stable chair and Newman conformations.
- record and present the results of their experiments in several formats, perform the basic chemical techniques of organic chemistry, and conduct simple synthetic reactions in a safe and efficient fashion.
- visualize organic molecules and represent them in accepted forms and apply these to determine how structure influences the function and reactivity of these molecules.

#### CHEMM07B - Organic Chemistry II

- demonstrate a mastery of organic chemistry material at a level equal to or greater than the national average as determined by the nationally standardized Organic Chemistry exam developed by the American Chemical Society.
- reproduce longer synthetic schemes, create plans for their own synthetic schemes and create complex molecules from simpler ones.

- predict and categorize the reactions of organic molecules and to compare the similarities and differences of given reactions. Students will apply the rules and axioms of organic chemistry to create logical and realistic synthetic pathways of complex molecules.

### CHEMM11 - Found. Gen, Org & Biochemistry

- learn about the multiple components that comprise nucleic acids, their functionality, and how the sequence of nucleotides ultimately accounts for the genetic code.
- demonstrate the program purpose of scientific inquiry.
- record and handle measurements using correct hands-on scientific protocol, and how to organize their activity in a laboratory setting.
- understand how many physiological functions and medically important biological processes are underpinned by chemical concepts.
- demonstrate a basic knowledge of atomic theory, bonding theory, kinetics and equilibrium properties of molecules. Students will be able to categorize and identify biologically important molecules and the major classes of organic chemicals.

### CHEMM12 - Introductory Chemistry I

- balance chemical reactions, interpret data, and solve various stoichiometry problems which include limiting reactant problems, generating correct answers with appropriate significant figures.
- explain the results of their hands-on experiments using clear scientific language.
- record and handle measurements using correct scientific protocol, and how to organize their activity in a hands-on laboratory setting.
- demonstrate an understanding of how atomic theory allows chemists to explain the workings of the natural world.

### CHEMM13 - Introductory Chemistry II

- demonstrate a mastery of rate laws and reaction mechanisms, equilibrium problems, Le Chatelier's Principle, and acid-base theories.
- demonstrate a basic knowledge of the thermodynamics, kinetics and equilibrium properties of molecules. Students will be able to categorize and identify biologically important molecules and the major classes of organic chemicals.
- understand how many intuitive ideas about the molecular world are incorrect, and how chemical experiments can provide more useful concepts to replace those ideas. Students will summarize their hands-on laboratory experiments in clear and precise scientific language.

### CHEMM80 - Internship in Chemistry

- Develop on-the-job learning objectives that demonstrate new and expanded learning at the work site that directly relate to the student's educational or occupational goal (major or career).
- Demonstrate successful workplace human dynamics, which may include: working as part of a team, following implicit and explicit instructions including company policies and procedures, and practicing work ethics.
- Demonstrate appropriate work skills such as communication, problem solving, decision making, teamwork, self-management, initiative, and/or technical skills that are gained as a result of new and expanded learning at the worksite.
- Organize and maintain occupational work experience records, including time sheets, a consultation record, and learning objective proposals, evaluation, and documentation.
- Appraise and evaluate the occupational work experience situation as it applies to the student's educational or occupational goals (major or career) in written or verbal format in the form of a paper, project, or presentation.

### CHEMM122 - Independent Study - Chemistry

- analyze new data and conduct further research to assess the accuracy of their information and findings.

## Computer Science

### CLO

#### CSM01 - Intro Computer Science

- compare and contrast different software engineering concepts
- demonstrate ability to communicate solutions to non-technical audience
- design and build program solutions with computer problem solving
- discuss and explain fundamental computer network and Internet concepts
- Explain fundamental architecture concepts of computer design.
- implement proper algorithms to solve problems

#### CSM10DB - Database Mgmt Systems and App

- design small databases with primary and foreign keys and other constraints to be enforced by the database management system (DBMS).
- design databases by employing normalization rules, supertypes and subtypes to reduce nulls, the order of rows and columns be arbitrary, and other rules to reduce redundancies.

- create and drop tables; insert, delete, and update raw data; and select (retrieve) data using a relational DBMS.
- employ procedures and commands to create, drop tables, and query one or more tables.

### CSM10DS - Introduction to Data Science

- apply modern data science methods to one or more domains of application (e.g., business analytics, finance, networking, engineering, and public health).
- visualize, curate, and prepare data for use with a variety of statistical methods and models and recognize how the quality of the data and the means of data collection may affect conclusions.
- apply current computing innovations, such as machine learning, AI (Artificial Intelligence), parallel and distributed computing, to solve practical problems characterized by large-scale data.
- apply and adapt statistical software packages and scalable computing resources to formulate problems, define and collect relevant existing data, and analyze the data for insights.

### CSM10J - Intro to Comp Prog Using Java

- design, code, compile, test and document a solution when given a specification for a program or program segment.
- write control structures (like conditional & loop), exception handling, methods (both returning value and recursion methods), and will be able to trace the execution with the output.
- write classes, inheritance classes, graphical user interface, processing objects, and being able to describe what the user sees and the events that take place as the user interacts with the interface.
- demonstrate functions of the File input/output objects and interfaces
- develop Java applications involving graphical animations and sound manipulations

### CSM10ML - Cloud Data Sci Machine Learn

- apply cloud data science services that solve data analysis inquiries.
- use a cloud based Jupyter notebook and other cloud tools and services to extract, transform and load the needed data analytics processes.

### CSM10P - Python Programming

- write and correct detailed algorithms, some of them would include text processing. (Properly analyze a software problem using top down design and write related algorithm that can be translated into computer program in Python).
- write Python code that uses correct syntax declaring data types, algebraic formulas, logical expressions, naming variables, and etc.)
- write Python code that correctly uses control structures including conditionals (like "if"), loops (like "while" and "for"), user defined functions (both void and value returning), and recursive functions.
- write Python code that correctly uses data structures including strings, arrays, lists, tuples, dictionaries, and sets.
- write Python code to design and implement classes, objects, and GUI (Graphical User Interface).

### CSM10R - R Programming

- implement an R programming environment to develop programs for data manipulation, management, and analysis.
- develop statistical computing solutions including statistical graphics using the R programming language.

### CSM15W - ClientSide WebD HTML/JavaScrip

- apply web development tools to produce websites
- produce professional webpages using advanced HTML
- create static and dynamic pages using HTML, JavaScript and XML
- use forms to read data from user

### CSM16PH - Server-Side Dev. using PHP

- write proper PHP code to connect client side code (front-end) to database (back-end).
- evaluate different data retrieval methods running on the server.
- apply proper SQL and HTML code to generate dynamic content
- explain the different tiers a program consists of

### CSM25M - iOS Development I

- design and create a user interface for a mobile App.
- compare and contrast between different interfaces from a usability and user experience point of view.
- analyze the strengths and weaknesses of a given interface design for a mobile App.

- demonstrate ability to create a flexible and engaging interface for a given mobile program.

### CSM26M - iOS Development II

- develop a fully running application using stand-alone or client/server framework
- determine the proper development framework for a mobile app
- utilize features in mobile devices, such as location awareness and other sensors, your application
- implement advanced animation techniques to create an interactive app

### CSM80 - Internship in Computer Science

- demonstrate contemporary and relevant work experience in the field.

### CSM122 - Ind. Study - Computer Science

- analyze new information, practices, or research in the computer science discipline and utilize those findings in further research or creative projects.

### CSM125 - Prog Concepts Methodology I

- analyze programming problems and design algorithms to solve those problems that require file management.
- apply best practices when writing code
- apply the concepts of structured programming such as arrays, functions, loops to solve given problems
- demonstrate ability to communicate solutions to non-technical audience
- solve complex problems using Object Oriented Concepts

### CSM135 - Prog. Concepts and Method. II

- analyze programs and program fragments in order to determine what the code is doing, what errors the code may have, and what corrections should be made to the code.
- apply complex structures such as linked lists, hash tables and trees and graphs and other data structures to solve complex problems
- communicate technical solutions to non-technical audience
- describe and understand which data items are in which part of memory and how this affects program processing, design, and implementation.

### CSM145 - Computer Arch. & Organization

- compare and contrast between different parts of a computer architecture and organization.
- apply Boolean algebra, logic gates, and flip-flops to building circuits
- Solve problems using 80x86 assembly language program(s) using arithmetic, logical, shift and rotate instructions.
- demonstrate understanding of 80x86 assembly language syntax including mnemonics, registers, different operand types and addressing modes.
- demonstrated understanding and knowledge of data representation including number systems, signed and unsigned integers, and IEEE floating point representation of data.

### CSM155 - Discrete Structures

- Calculate probabilities of events and expectations of random variables for elementary problems.
- Use tree and graph algorithms to solve problems.
- Apply the rules of inference and methods of proof including direct and indirect proof forms, proof by contradiction, and mathematical induction.
- Apply combinatoric techniques to application problems.

## Engineering

### CLO

#### ENGRM01 - Introduction to Engineering

- Demonstrate knowledge of certain basic fundamental laws of physics, engineering concepts, and mathematics in problem solving.
- Understand, analyze, and synthesize a solution to an engineering problem using the engineering design process.
- Develop skills suitable for working in a team, and demonstrate knowledge of effective practices for writing technical reports, making oral presentations, and producing engineering drawings.

**ENGRM04 - Engineering Design/CAD**

- use computer aided drafting (CAD) software to generate two- and three-dimensional engineering drawings following standard drawing conventions recognized in the field of engineering.
- apply acquired CAD skills to develop a product design using the engineering design process.
- use CAD software to model an engineering product to convey its physical and mechanical attributes in terms of its shape, size, and function.

**ENGRM05 - 2-D AutoCAD**

- demonstrate skills necessary in using AutoCAD's 2-D drawing software to create technical drawings and plans in order to help the engineers and the architects with the design of many different products, machines, and structures.
- demonstrate preparedness for the AutoCAD Certified User (ACU) examination.

**ENGRM07 - SolidWorks I-Engr Mech Design**

- Demonstrate preparedness for the Certified SolidWorks Associate-Academic (CSWA-Academic) examination.
- Demonstrate skills necessary in using SolidWorks software to create 3-D designs of various mechanical parts, components, tools, and machines, and apply all necessary drawing annotations, dimensions, and tolerances.

**ENGRM08 - SolidWorks II-Engr Design Prac**

- Demonstrate skills necessary to configure and modify three dimensional models of engineering designs by employing various sophisticated application and analysis tools found in SolidWorks.
- Demonstrate preparedness for the Certified SolidWorks Professional (CSWP) examination.

**ENGRM10 - MATLAB Programming**

- apply numerical methods in order to solve problems in science and engineering.
- use the MATLAB environment to implement moderately complicated algorithms in a coherent and structured manner to solve problems in science and engineering.

**ENGRM12 - Engineering Materials**

- Propose an appropriate material for a particular application based on design and performance criteria, material properties, economics, and societal and environmental impacts.
- Identify, explain, and calculate various design parameters related to material failure.
- Explain the interrelationships between processing, structure, properties, and performance for various engineering materials such as metals, polymers, ceramics, composites, and semiconductors.

**ENGRM12L - Engineering Materials Lab**

- Measure material properties using standard materials testing equipment and techniques.
- Gather and analyze experimental data, and discuss experimental findings as they relate to material processing, structure, and property.

**ENGRM16 - Engr Stat/Strength-Mat**

- Apply appropriate knowledge of physics, engineering, and mathematics to explain, calculate and manipulate vector quantities such as resultant force and moment of a force about a point or an axis.
- Apply appropriate engineering problem solving techniques including free body diagrams, shear and bending moment diagrams, to identify and apply appropriate laws of physics and engineering equations, to problems that do not result in rigid body motion including static equilibrium and statically indeterminate axially loaded systems.
- In groups of 2 or 3 employ engineering problem solving techniques and the engineering design process to design, analyze, build, and present a truss bridge made out of Popsicle sticks.
- Discuss and calculate mechanical properties related to stress-strain diagrams and Mohr's circle for commonly used engineering materials.
- Use the geometric properties of bodies such as center of gravity, centroid, and area moment of inertia appropriately to assist in calculating resultant forces and internal loadings.

**ENGRM18 - Engineering Dynamics**

- apply concepts of displacement, velocity, constant acceleration, and curvilinear motion of particles as both scalar and vector quantities.
- analyze rigid body motion in two dimensions with respect to both absolute and relative motion descriptions.
- demonstrate an understanding of Newton's laws of motion and apply them to typical engineering problems involving particle kinetics and rigid body kinetics in plane motion.
- employ work-energy and impulse-momentum principles in solving engineering problems involving plane motion as an alternative method to Newton's laws of motion.
- employ engineering problem solving techniques and the engineering design process to design, analyze, build, and present a mass projectile.

**ENGRM20 - Elec Engr Fundamentals**

- recognize, recall, and apply the equations that describe resistive, alternating current, and transient circuits and operational amplifiers such as Ohm's law, Kirchoff's laws, Wye-delta transformations, nodal and mesh analysis, Thevenin and Norton equivalent circuits, and sinusoidal steady-state analysis.
- analyze and synthesize solutions to electrical circuit problems of reasonable complexity, and evaluate the results according to electrical engineering concepts and principles.
- use a computer to design and analyze electrical circuits of average complexity appropriate for the course.

### ENGRM20L - Elec Engr Fundamentl Lab

- perform experiments with electrical and electronic circuits in hands-on laboratory work.
- make measurements using common electrical engineering laboratory instruments and record the data.
- analyze data, construct and examine graphs, and write formal or informal laboratory reports using appropriate technical writing format and language.
- reduce and analyze the data for error propagation, critically evaluate the experimental results based on expected theoretical values and/or other relevant information, and draw conclusions regarding the experimental procedures.
- use Personal Simulation Program with Integrated Circuit Emphasis (PSPICE) or similar computer software, to design and analyze electrical and electronic circuits of average complexity appropriate for the course.

### ENGRM33 - Intro to Environmental Engr

- demonstrate an understanding of environmental issues, basic environmental management and pollution control technologies.
- demonstrate knowledge of understanding and compliance of relevant environmental legislation and standards.
- demonstrate basic skills for sampling and characterization of soil, water, and air samples.

### ENGRM33L - Environmental Engineering Lab

- demonstrate an understanding of the chemical reactions, and physical and microbial processes that govern soil, aquatic, and atmospheric environmental systems.
- identify main inorganic and organic pollutants that affect water, soil, and air systems and their impacts on human health and ecological communities.
- use standard testing methods and instruments to analyse and remediate polluted soil, water, and air.

### ENGRM35 - Solid Waste & Hzrd Waste Mgmt

- select a proper waste treatment methodology considering the impacts on human health and the environment.
- identify applicable federal, state, and local laws and regulations for generation and management of solid and hazardous wastes.

### ENGRM80 - Internship in Engineering

- demonstrate contemporary and relevant work experience in the field.

### ENGRM122 - Ind. Study - Engineering

- Specific outcomes will depend upon the topics developed. Geography is a broad discipline concerned with both natural and social science topics.

### ENGRM912 - Bridge to ENGR M12

- recognize and explain primary and secondary bonds in metals, ceramics, and polymers.
- perform mathematical operations such as differentiation, integration, calculating vector magnitudes, dot products, and determining vector directions.
- recognize the importance of chemical and physics concepts in materials science and engineering.

### ENGRM916 - Bridge to ENGR M16

- recognize the importance of physics concepts as applied to the field of engineering.
- use appropriate mathematical operations to simplify and manipulate engineering equations.

## Engineering Technology

### CLO

#### ENGTMO2 - Digital Circuits

- apply digital design and logic concepts to analyze problems and synthesize solutions related to digital electronics in engineering.
- demonstrate the operation of various electronic lab equipment to test the integrity of logic circuits designed for a particular application.
- construct, analyze, and troubleshoot combinational and sequential digital circuits.

**ENGTM04 - Basic Electronics**

- apply concepts of electricity and magnetism to analyze problems and synthesize solutions related to electrical devices.
- construct, analyze, and troubleshoot RCL (resistor, capacitor, inductor) circuits.

**ENGTM06 - Intro Microprocess Microcontrl**

- select the most suitable microprocessor or microcontroller for a given application, considering a given set of constraints, based on knowledge gained in this course and the understanding of the specifications supplied by the manufacturer.
- troubleshoot by locating and identifying a faulty component in a malfunctioning microprocessor/microcontroller-based circuit or system using analytical and experimental techniques learned in class.
- design and construct a microprocessor/microcontroller-based circuit or system, by specifying hardware and software, to perform a specified function.

**ENGTM10 - Intro to UAV Tech**

- explain the challenges, benefits and uses of Unmanned Aerial Vehicle (UAV) technology in military and commercial business sectors.
- demonstrate knowledge of Federal Aviation Administration (FAA) regulatory standards applied to real life UAV operation.
- operate a quad-rotor aircraft and perform simple maneuvers through and around obstacles.
- trouble shoot a malfunctioning UAV.

**ENGTM12 - Radar Fundamentals**

- describe the different types and functions of radar systems.
- demonstrate knowledge of the fundamentals of radar signal processing, how signal processing is achieved, and why signal processors are needed.

**ENGTM20 - Electronic Devices**

- explain the basic functions, operations, and architecture of electronic devices.
- incorporate the proper electronic device in a circuit or an electric system to achieve a specified outcome or for a specified application.
- troubleshoot a circuit or an electric system containing a malfunctioning electronic device using analytical and experimental techniques learned in class.

**ENGTM30 - Program. Logic Contrl. (PLCs)**

- explain the basic functions, operations, and architecture of Programmable Logic Controllers (PLCs).
- program the PLC for a specified application or to achieve a specified outcome.
- troubleshoot a malfunctioning PLC using analytical techniques learned in class.

**ENGTM32 - Elect and Mech Devices**

- design an electromechanical system for a specified application or to achieve a specified outcome.
- explain the basic functions, operations, and architecture of various electromechanical systems.
- troubleshoot a malfunctioning electromechanical system using analytical techniques learned in class.

**ENGTM38 - Capstone Project in Mecha ENGT**

- integrate the knowledge acquired in the mechatronics engineering technology program to provide effective solutions for problems related to electromechanical systems or components.
- plan and manage a large scale engineering design project which has an emphasis on topics related to mechatronics engineering technology.

**Environmental Science****CLO****ENSCM01 - Environmental Science**

- evaluate the history and impacts of unsustainable social practices and sustainable alternatives.

**ENSCM01L - Environmental Science Lab**

- Evaluate the biodiversity of natural ecosystems, and identify members of the fauna and flora.
- Analyze metrics of soil health on agriculture and water pollution, including its physical, chemical and biological properties.
- Analyze the physical and chemical properties of water samples and understand how to manage and predict the contamination of ground and coastal waters.

- Apply what is meant by energy types, the conversion of energy, and thermodynamics.

#### ENSCM02 - Environ-Human Interactn

- Analyze and evaluate economic/government/social program decisions and their impact on the environment or human health.
- Create an original project presentation focused on key environmental issues.

#### ENSCM03 - Energy Resource/Conserv

- Analyze and evaluate applications and conservation of energy and other natural resources to the human-earth system.

#### ENSCM07 - Applied Solar Technology

- Create a sample proposal for a complete photovoltaic system for a residential or commercial project.
- Create a sample proposal for a complete solar thermal water heating system for a residential or commercial project.

#### ENSCM07L - Applied Solar Technology Lab

- Evaluate and properly install a photovoltaic system in a residential (or simulated residential) home.

#### ENSCM80 - Internship in Environ Science

- use the applied skills and tools to complete a task or reach an understanding related to the environmental science.

#### ENSCM122 - Independent Studies-Envrnment

- demonstrate an understanding of applying the scientific method to researching and understanding an environmental problem or system.

#### ENSCM971 - LM - Plant Selection

- describe plant selection criteria for specific landscape site conditions, based upon adaptive characteristics.
- identify a range of plants adapted to California environments.

#### ENSCM972 - Financial Principles for LC

- describe the application of financial tools to assess the profitability of landscape management projects.
- describe the significance of balance sheets and income statements to a landscape management company.
- explain the significance of budget planning to landscape management projects.

#### ENSCM973 - Management Principles for LC

- analyze the impact of human resource management on employee retention and productivity.
- analyze the phases of process management as they relate to business operations.
- conduct a self-assessment of current leadership skills; identifying strengths and weaknesses.

#### ENSCM974 - Landscape Ecology LM

- describe and define sustainable practices for managing urban landscapes.
- develop plant palettes comprised of plant species which can mitigate the impact of Climate change.

### Geographic Information Systems

#### CLO

#### GISM01 - Intro. to Mapping and GIS

- examine the spatial organization of physical features and human activities at a variety of spatial scales from local to global.
- use industry standard GIS software to complete basic spatial analysis of various data types including both physical and human topics.

#### GISM02 - GPS and Map Analysis

- Effectively collect, download, post-process, and analyze GPS data collected in the field.
- Run a query of tabular data and display those data on a map in a classified fashion.

#### GISM22 - Raster GIS & Spatial Analysis

- Collect, compile, organize, transform, analyze, and make intelligent geospatial decisions from analyzing geospatial and attribute data.
- Perform basic density analysis based on a quantity that is measured at many locations and the spatial relationship of the locations of the measured quantities.

- Model a surface based on inverse distance weighted modeling

### GISM23 - Remote Sensing

- Apply basic digital image processing and interpretation methods to extract useful information from remote sensing images
- Describe how remote sensing is used in various disciplines, including hydrology, forestry, agriculture, and global environmental science.
- Describe commonly used remote sensing sensors and image acquisition methods.

### GISM24 - Intermediate GIS Applications

- Determine an appropriate approach to solving a spatial problem or answering a question using geospatial tools and methods.
- Run geoprocessing tools individually and implement a model to run several tools in sequence.
- Effectively perform a network analysis of a transportation network.

## Geography

### CLO

#### GEOGM01 - Physical Geography

- identify and explain the underlying controls involved in climate zones.

#### GEOGM01L - Physical Geography Lab

- answer correctly 7 out of 10 questions related to climate zones, their distribution and underlying processes.

#### GEOGM02 - Cultural Geography

- identify and understand the dynamics of population change.

#### GEOGM03 - World Regional Geography

- recognize and explain demographic patterns and associations between demographics such as birth rates, death rates and migrations rates in different regions.

#### GEOGM03H - Honors: World Regional Geog.

- recognize and explain demographic patterns and associations between demographics such as birth rates, death rates and migrations rates in different regions.

#### GEOGM05 - Weather and Climate

- explain short and medium term weather forecasts based on sound meteorological principles.
- explain climate phenomena including global circulations, past and current climate, and basic physical mechanisms, responsible for climate change.

#### GEOGM80 - Internship in Geography

- use the applied skills and tools to complete a task or reach an understanding related to geography.

#### GEOGM122 - Independent Study-Geography

- use geographic data to evaluate and solve geologic problems.

## Geology

### CLO

#### GEOLM02 - Physical Geology

- demonstrate understanding of and apply the "9 Big Ideas" of Earth Science as outlined by the National Science Foundation.

#### GEOLM02H - Honors: Physical Geology

- demonstrate understanding of and apply the "9 Big Ideas" of Earth Science as outlined by the National Science Foundation.

#### GEOLM02L - Physical Geology Lab

- identify and analyze sedimentary rocks and construct a paleogeographic map based on their interpretations of depositional environments.

#### GEOLM03 - Earth History

- apply the criteria used to differentiate among periods of geologic time to points of change in the past and to the present Earth conditions.

#### GEOLM03L - Earth History Lab

- interpret paleogeographic and geologic maps of a region to interpret its geologic evolution.

**GEOLM04 - Mineralogy**

- evaluate the mineralogy of an igneous or metamorphic rock the student collected, using optical and geochemical techniques.

**GEOLM05 - The World Ocean**

- describe the tectonic, sedimentary, climatological, and celestial processes that affect ocean depth at a given location or time.
- explain how and why the climate crisis is an "ocean crisis".

**GEOLM05L - The World Ocean Lab**

- articulate the ocean's role in the climate system and predict changes that may occur as a result of anthropogenic climate change.
- demonstrate an understanding of how the oceans and the ocean basins formed, the topography of the sea floor, and the where sediments found on the seafloor come from.

**GEOLM18 - Field Geology**

- collect and analyze geologic data and summarize the results in a scientific journal-style paper.

**GEOLM61 - Natural Disasters**

- interpret a major natural hazard through the lens of the 4 P's: Process, Procedure (mitigation), Prediction, and Preparedness
- relate the concepts of magnitude and frequency to the major types of natural hazards.

**GEOLM80 - Internship in Geology**

- use the applied skills and tools to complete a task or reach an understanding related to Earth science.

**GEOLM121 - Earth Science with Lab**

- demonstrate understanding of and apply the "9 Big Ideas" of Earth Science as outlined by the National Science Foundation.

**GEOLM122 - Independent Studies - Geology**

- use geologic data to evaluate and solve geologic problems.

**Physical Science****CLO****PHSCM01 - Principles of Physical Science**

- Cultivate problem solving and decision-making skills using the scientific method to study the physical world.
- Demonstrate an understanding of the physical world to solve basic problems in Physics, Chemistry, and Astronomy

**PHSCM01L - Principles of Phy Sci Lab**

- demonstrate an understanding of the chemical reaction balancing chemical equations and determining limiting reagents and percentage yield
- identify the major concepts of displacement, position, velocity, speed, acceleration and the appropriate units for each

**PHSCM80 - Internship in Physical Science**

- demonstrate contemporary and relevant work experience in the physical science field.

**PHSCM122 - Ind. Study - Physical Science**

- analyze new information, practices, or research in the Physical Science discipline and utilize those findings in further research or creative projects.

**Physics****CLO****PHYSM01 - Descriptive Physics**

- Demonstrate a conceptual understanding of the physical world and mechanical systems through the scientific method.
- Solve problems involving kinematics, force, energy, momentum, waves, and thermodynamics at a beginner's level.

**PHYSM01L - Descriptive Physics Laboratory**

- Demonstrate an understanding of basic knowledge, principles, and laws of the physical world as applied during lab experiments.
- Apply introductory principles to solve problems involving kinematics, force, energy, momentum, waves, and thermodynamics during lab experiments.

**PHYSM10A - General Physics I**

- Demonstrate a beginners-to-intermediate understanding of basic knowledge, principles, and laws that govern the physical world, in the area of mechanical systems and thermodynamics.
- Demonstrate competence in applying the methods of scientific inquiry using algebra-based physics principles to solve problems involving kinematics, force, energy, momentum, waves, and thermodynamics.

**PHYSM10AL - General Physics I Lab**

- Recognize the relevant physical principles and laws that govern physical phenomena in the area of mechanical systems and thermodynamics during beginner-to-intermediate lab experiments.
- Demonstrate competence in applying physical principles to setup, observe and solve beginner-to-intermediate problems involving kinematics, force, energy, momentum, waves, and thermodynamics during lab experiments.

**PHYSM10B - General Physics II**

- Demonstrate a beginners-to-intermediate understanding of basic knowledge, principles, and laws that govern the physical world in the areas of electricity, magnetism and modern physics.
- Demonstrate competence in applying the methods of scientific inquiry using algebra-based physics principles to solve problems involving electricity, magnetism, and modern physics.

**PHYSM10BL - General Physics II Laboratory**

- Recognize the relevant physical principles and laws that govern physical phenomena in the area of electricity, magnetism, and modern physics, during beginner-to-intermediate lab experiments.
- Demonstrate competence in applying physical principles to setup, observe and solve beginner-to-intermediate problems involving electricity, magnetism and modern physics during lab experiments.

**PHYSM20A - Mechanics of Solids and Fluids**

- Demonstrate an intermediate-to-advanced understanding of basic knowledge, principles, and laws that govern the physical world, in the area of mechanical systems and Simple Harmonic Motion.
- Demonstrate competence in applying the methods of scientific inquiry using calculus-based physics principles to solve problems involving kinematics, force, energy, momentum, and Simple Harmonic Motion.

**PHYSM20AL - Mechanics of Solids/Fluids Lab**

- Recognize the relevant physical principles and laws that govern physical phenomena in the area of mechanical systems and Simple Harmonic Motion during intermediate-to-advanced lab experiments.
- Demonstrate competence in applying physical principles to setup, observe and solve intermediate-to-advanced problems involving kinematics, force, energy, momentum, Simple Harmonic Motion during lab experiments.

**PHYSM20B - Thermo, Elec., Magnetism**

- Demonstrate an intermediate-to-advanced understanding of basic knowledge, principles, and laws that govern the physical world in the areas of thermodynamics, electricity and magnetism.
- Demonstrate competence in applying the methods of scientific inquiry using calculus-based physics principles to solve problems involving thermodynamics, electricity and magnetism.

**PHYSM20BL - Thermo./Elec. & Mag. Lab**

- Recognize the relevant physical principles and laws that govern physical phenomena in the area of thermodynamics, electricity and magnetism, during intermediate-to-advanced lab experiments.
- Demonstrate competence in applying physical principles to setup, observe and solve intermediate-to-advanced problems involving thermodynamics, electricity and magnetism during lab experiments.

**PHYSM20C - Wave/Optics/Modern/Physics**

- Demonstrate an intermediate-to-advanced understanding of basic knowledge, principles, and laws that govern the physical world, in the area of Wave Mechanics, Optics, and Modern Physics.
- Demonstrate competence in applying the methods of scientific inquiry using calculus-based physics principles to solve problems involving Wave Mechanics, Optics, and Modern Physics.

**PHYSM20CL - Wave/Optics/Modrn Phys Lab**

- Recognize the relevant physical principles and laws that govern physical phenomena in the area of Wave Mechanics, Optics, and Modern Physics during intermediate-to-advanced lab experiments.
- Demonstrate competence in applying physical principles to setup, observe and solve intermediate-to-advanced problems involving Wave Mechanics, Optics, and Modern Physics during lab experiments.

**PHYSM80 - Internship in Physics**

- demonstrate contemporary and relevant work experience in the physics field.

**PHYSM122 - Independent Study - Physics**

- analyze new information, practices, or research in the Physics discipline and utilize those findings in further research or creative projects.

**Z - Archive****Work Experience****CLO****WEXPM31 - Job & Career Readiness**

- Identify job search techniques that are most successful
- Identify individual strengths and skills that an employer would value
- Identify job search/ career exploration goals including methods and time frame
- Students will prioritize job search activities stating goals, methods of achieving goals and timelines

**WEXPM36 - Strategies for Career Success**

- Identify key actions that demonstrate workplace personal responsibility and ethics, including punctuality, appropriate dress, and honest work practices.
- define skills critical to working in a team.
- describe general components of a workplace culture, analyze an individual workplace to determine the culture, and develop personal strategies to fit with that culture.
- describe general components of a workplace culture, analyze a workplace to determine culture, and develop personal strategies to fit that culture

**WEXPM901 - Strategic Job Search**

- Adopt a strategy to approach occupational research that will enhance job search efficiency and effectiveness.
- Write a professional resume and cover letter.
- Analyze the essential components of the job interview process and create a strategic plan for specific interviews.

**WEXPM902 - LinkedIn for Business**

- optimize personal and/or company profile(s) for maximum effectiveness.
- use LinkedIn to showcase professional credentials and build their professional reputation.
- understand the value of social media as it pertains to securing a job, and gain specific knowledge of LinkedIn's role as a preeminent platform for professional networking.