

Course Student Learning Outcome review

Verify that all course outcomes focus on student learning rather than on teaching or on programmatic goals.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
TheCourses - Arts: ARTS, DANC, FINE, HUMN, MUSC, PHIL, THEA	ARTS109	Principles of Design and Color	Color Theory	Apply the principles of color theory in analyzing a selected piece of art.
			Fundamentals	Apply the fundamentals of line, shape, color and design in a piece of art.
			Spatial Concepts	Analyze the use of spacial concepts in a selected piece of art.
	ARTS110	Fundamentals of Drawing	Visualization	Discuss the process of visualizing ideas and concepts.
			Creative Process	Discuss the creative processes used in creating own work and that of peers.
			Elements of Composition	Discuss the elements of a good composition, including value, line, proportion and scale.
	ARTS111	Introduction to Painting Media and Techniques	Observational Drawings	Create observational drawings.
			Composition Purpose	Describe in detail the purpose of each composition created during the course.
			Content	Analyze social and/or cultural consequences of each composition
	ARTS115	Introduction to Ceramics	Materials	List and define the purpose of chosen materials.
			Original Compositions	Design and produce original compositions
			Personal Style	Synthesize each composition into their personal style.
ARTS211	Mixed Media Explorations	Construction Techniques	Use throwing and hand construction techniques in creating ceramic pieces.	
		Equipment	Operate the pugmill and kiln.	
		History	Identify and discuss significant events in the history of ceramics as an art form.	
ARTS212	Art for Elementary Teachers	Not offered	Course was deleted in revision of minor that took effect Fall 2016.	
ARTS250	Art History and Appreciation I	Not offered	This course has not been offered since Fall 2011, and is recommended for deletion.	
		Evolution of Art	Discuss the evolution of art from prehistory through to the medieval period.	
		General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development	
ARTS251	Art History and Appreciation II	Major Monuments	Recognize and describe major monuments of art from prehistory through to the medieval period.	
		Unity in the Arts	Assess the unity in the arts within various styles.	
		Analysis of Monuments	Analyze major monuments of art produced from the Renaissance to the post-modern period in Europe and the United States.	
			General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
			Impact of History	Discuss the history of Europe and the United States as it influenced major monuments of art.

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			Major Monuments	Recognize and describe the major monuments of painting, architecture, and sculpture produced in Europe and America from the Renaissance to the post-modern period.
			Styles of Art	Recognize major styles of art from the Renaissance to the post-modern period.
	DANC101	Ballet I	Ballet Technique	Execute ballet techniques required at the beginner level and apply these skills during every class session and in performance.
			Vocabulary	Recognize, identify and use ballet vocabulary.
	DANC120	Jazz Dance I	Course Not Yet Taught	Developed in the revision of dance minor, effective Fall 2016, but not taught
	DANC125	Modern Dance I	Application of knowledge	Recognize, identify and apply modern/ballet terminology, history and vocabulary through demonstration and oral explanation
	DANC130	Scottish Highland Dance	Not Offered	Course deleted in the revision of the dance minor, effective Fall 2016.
	DANC201	Ballet II	Execute Techniques	Accurately execute ballet techniques with and without the barre.
			Recognition	Recognize, identify and use ballet vocabulary through demonstration and writing
	DANC205	Creative Movement for Elementary Educators	Not Offered	Course has not been offered since Fall 2015; recommend deletion of course
	DANC210	Movement for Actors	Not Offered	Course deleted as part of the revision of the dance minor.
	DANC220	Musical Theatre Tap/Jazz	Not Offered	Course last offered in Spring 2104; recommend course be deleted
	DANC225	Modern Dance II	Artistry	Perform a dance with the entire class demonstrating clear movement memory, and a growing sense of artistry
			Knowledge and Physical Command	Demonstrate knowledge and physical command of increasingly more difficult movement sequences, a deeper knowledge of modern dance vocabulary, and an increasing sense of musicality/rhythm
	DANC301	Ballet III	Ballet Technique	Accurately execute ballet techniques at the perscribed level.
			Ballet Vocabulary	Recognize, identify and use ballet vocabulary in demonstration and choreography.
	DANC305	Dance History	Appraise	Appraise significant socio-cultural influences on the develop of Western concert dance art
			Investigate	Investigate the roots of Western concert dance
	DANC310	Choregraphy	Digital Portfolio	Practice sound documentation practices that preserve artistic works, and maintain these works (in rehearsal and performance) in a well-tended digital portfolio
			Integrate	Integrate dancemaking concepts into short studies and longer works with increasing complexity
			Question Aesthetic Choices	Question aesthetic choices of choreographers, and begin to develop, articulate, and act upon their own aesthetic interests
	DANC401	Senior Thesis	Create	Create two completed dances that demonstrate command of dancemaking vocabulary, tools, and the principals of choreographic craft
			Document	Engage documentation practices that preserve artistic works, and maintain these works in a digital portfolio
	FINE405	Independent Project	Senior Project	Each student in FINE405 develops their own individual project with their advisor who then creates a set of learning outcomes with that student.

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	HUMN203	Survey of Chinese Culture	General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
			Not Offered	Course has not been offered since Summer 2013; recommend deletion
	HUMN240	Native Art and Culture	General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
			Not Offered	Course not offered; recommend deletion
	HUMN251	Humanities I	General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
	HUMN252	Humanities II	General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
	HUMN255	World Mythology	General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
			Myths Across Cultures	Assess the unity, if any, in the myths and epics that have survived from ancient cultures.
			Myths in Evolution of Cultures	Assess the role of gods and heroes in the evolution of individual cultures.
			Myths of Ancient Populations	Recognize and describe some of the most important myths created by ancient populations around the world.
			Purpose of Myths	Analyze the human proclivity to generate texts to explain the origin of human existence.
	HUMN256	Introduction to Film: Images of Our Culture	Not Offered	Course has not been offered since Fall 2007; recommend deletion
	HUMN261	World Literature I	Not Offered	Course has not been offered; recommend course be deleted
	HUMN262	World Literature II	Not Offered	Course has not been offered; recommend deletion.
	HUMN490	Directed Studies in Humanities	Course Not Needed	Adjustment to Humanities General Education credit requirements negates the stated need for this course; recommend deletion.
	MUSC112	Band	Parts	Analyze individual parts within the ensemble.
			Performance	Synthesize knowledge of individual instruments into the overall performance in the ensemble.
			Tone and Intonation	Create beauty of tone and intonation within the ensemble and to play accurately the notes and rhythms in assigned music.
	MUSC140	Choir	Analyze parts	Be able to analyze their individual voice part in respect to the entire piece of music
			Beautiful sounds	Be able to create and sustain beautiful choral sounds.
			Describe styles	Be able to describe the style and genre of each of the selected works.
			List composers	Be able to list the composers and titles of selected works
			Synthesis	Be able to synthesize the principles of diction, breath support and vocal technique into the performance of selected works which will be learned and performed at the final performance.

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	MUSC170	Class Piano I	Determine Key Signature	Students will be able to determine the proper key signature of a selection in both sharp and flat keys.
			Identify Accidentals	Students will be able to identify the three forms of accidentals and correctly play them using music printed in textbook.
			Master pedals	Students will properly master the use of the three pedals on a large piano (two in home instrument).
			Performance	Students will be able to play basic works in the keys of C, G and F and the basic 1-4-7 chords in those keys.
			Performing Cords	Students will correctly perform: Blocked chords; rolled cords; arpeggios; glissando; and mixed cords.
			Play legato/staccato	Students will demonstrate the ability to play with both legato and staccato touch using music in the keys of C, F, and G.
			Playing	Students will learn the enharmonic names for an octave of notes, for materials found in textbook, lecture, demonstration, and supplemental materials.
			Reading	Students will learn to read musical notation for both the treble (G clef) and bass (F clef).
	MUSC171	Class Piano II	technical ability	demonstrate technical ability to play: scales and chords in minor keys: major scales and keys of moderate difficulty: selections including mixed chords, broken chords, legato and staccato touch, triplets, syncopation, and correct musical phrasing
	MUSC180	Class Guitar I	Development	Develop several right hand techniques; strumming, picking, palm muting
			Performing Cords	Be able to play major and minor chords
			Play major scale	Be able to apply the major scale to form chords, chord progressions, and compose.
			Playing	Be able to play open chords, powerchords, and barre chords
			Understanding	Know the major scale
	MUSC210	Applied Music I	Proficiency	Become familiar with and proficient on select pieces from the standard literature.
			Progress	Have demonstrated progress on their individual instrument.
			Scales, Studies and Etudes	Demonstrate technical progress in the area of scales, studies and etudes at an appropriate level, as determined by the instructor
	MUSC220	History and Appreciation of Music I	General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
	MUSC221	History and Appreciation of Music II	General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
	PHIL204	Introduction to Philosophy	1	• explain, evaluate, and analyze human aesthetics and its historical development.
			2	• identify the theoretical and practical concerns of philosophy.
			3	• understand a variety of positions pertaining to complex philosophical problems.
			4	• evaluate other philosophers' and classmates' positions.
			5	• articulate in writing and in speech one's own position in the philosophical discourse.

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	PHIL205	Logic	General Education - Mathematics	Analyze situations symbolically and quantitatively in order to make decisions and solve problems
	PHIL250	Philosophy of Religion	Outcome 1	<ul style="list-style-type: none"> Be able to analyze the fertility or futility of reason in matters of faith.
	PHIL302	Ancient Western Philosophy	General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
			SLO1 Basics	Understand the basic questions and theoretical frameworks of philosophy
			SLO2 Historical	Understand historical development of ancient philosophy.
			SLO3 Foundations	Be able to communicate effectively the foundations of ancient philosophical theory and clarify their applications to present day trends in aesthetics, epistemology, metaphysics, and ethics.
			SLO4 POV	4. Be able to evaluate different points of view from other classmates and philosophers through speaking, reading, and writing.
			SLO5 Dialogue	Enhance students' ability to be effective listeners and communicators through dialogue.
	PHIL305	Modern and Contemporary Philosophy	General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
	PHIL490	Directed Study in Philosophy	Acquisition	Achieve new knowledge in a field of philosophy.
			Dissemination	Disseminate that knowledge in the format of a document, which will be roughly 1500-1750 words in length for each credit earned.
			Engagement	Engage with current scholarship in the field and defend claims within that scholarship.
	THEA112	Acting for Beginners	Collaboration	Express understanding of basic principles of collaboration
			Courage	Show the courage to speak/stand/advocate for an idea
			Empathy	Recognize the role of empathy in acting and their lives
			Fundamentals	Explain the basic principles of acting known as circumstance, partner, and action
			Imagination/Commitment	Show imaginative play and commitment
			Voice/Body	Show increased vocal and physical expression
	THEA162	Practicum: Acting in Practice	Ensemble	Describe the process of creating an ensemble
			Performance	Demonstrate their level of understanding of acting via live performance
			Personal Technique	Recognize individual levels of effectiveness and appropriateness in the process as a whole and identify specific actionable ways to improve
			Process	Describe the process of creating a full character
			Rehearsal Process	Identify effective and appropriate rehearsal etiquette and technique
	THEA163	Practicum: Production Team	Complexity/Interconnectedness	Describe the complexity and interconnectedness of the multiple and varying aspects of a theatrical production
			Etiquette in Theatre	Identify effective and appropriate etiquette and responsibilities of working on a theatrical production

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			Individual Effect on the Whole	Recognize individual levels of effectiveness and appropriateness in the process as a whole and identify specific actionable ways to improve
			Production Duties	Describe aspects of producing a theatrical production
			Seeing it Through to the End	Demonstrate their level of understanding by fulfilling their responsibility to the show during rehearsals and ultimately in live performances
	THEA164	Practicum: Healthcare Simulation	Individual Effect on the Whole	Recognize individual levels of effectiveness and appropriateness in the process as a whole and identify specific actionable ways to improve
			Non-Traditional Form	Describe the process of working as an actor in a nontraditional situation (i.e., with a partner who is not an actor)
			Preparation	Identify effective and appropriate preparation
			Short Form Acting	Describe the process of creating multiple characters for short term scenarios
			Simulation Completion	Demonstrate their level of understanding by acting in multiple simulations
	THEA212	Improviseational Acting	Collaborate	Demonstrate collaborative ensemble work
			Connection to Voice and Body	Manipulate the voice and body in imaginary circumstances
			Courage	Demonstrate the courage to speak/stand/advocate for ideas, both imaginary and real - adapting to change quickly
			Fundamentals	Apply basic principles of improviseational acting
			Imaginative Expressiveness	Display imaginative play and commitment
			Showing	Perform an improviseational show at the end of the semester
	THEA251	Theatre History	General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
			Innovators of Theatre	Recognize key innovators in theatre
			Play Analysis	Demonstrate basic script analysis skills
			Through the Frame	Discuss cultural and social aspects of historical moments as seen through the study of playwrights and their work
			Why Study Theatre	Explain why we study theatre
	THEA309	Survey of Great Playwrights	Impact of a Playwright	Discuss the elements of the work studied that make them fundamental to theatre study
			Play Analysis	Analyze plays using various constructs
			Playwright's Body of Work	Discuss connections between specific collections of plays written by one playwright
			Repertoire	Discuss details of a broad range of plays and their place in the theatrical repertoire
	THEA312	Acting Shakespeare	Act Shakespeare	Act a selection of Shakespeare's set speeches and soliloquies – rehearsed and "cold-read"
			Collaboration	Exhibit understanding of collaboration in their work with fellow students
			Context	Describe the broader and deeper connections across the canon of Shakespeare's plays.
			Expressiveness	Express creative ideas in conversation with other students
			Speak the Text	Dramatize their understanding of Elizabethan concepts and conventions vocally and

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			Speak the Text	physically
	THEA333	Play Analysis	Context	Exhibit understanding as to how context (historical, political, social, and economic) informs the script studied
			Understanding the PlayScript	Discuss the unique construction of plays that sets them apart from other types of writing
			Women's Perspectives In the Theatre	Discuss the work of women playwrights from the 20th and 21st centuries and their respective work
	THEA412	Acting Studio	Written Play Analysis	Construct an effective and appropriate play analysis
			Acting	Act a selection of monologue and scene work
			Collaboration	Create collaborative work
			Expressiveness	Exhibit freedom of expressiveness, vigorous imagination, and control over their voices and bodies
			Generate	Generate conversation about big ideas in the creative process
			Personal Technique	Devise a technique based approach to their acting – implementing tools like “fueling thought,” “essential action,” “power of the object,” “what you are most,” and “finding truth from the partner”.
TheCourses - Biology: BIOL	BIOL104	Survey of General Biology	Apply knowledge to new scenarios	Students will be able to apply their new-found knowledge to novel scenarios and questions.
			Articulate findings and major concepts	Students will be able to articulate their scientific findings to a broad audience. Students will be able to explain and/or demonstrate major concepts to a broad audience.
			Create conceptual frameworks and models	Students will be able to create conceptual frameworks and models of the key concepts and processes of the living world, ranging from the cell through the biosphere.
			Formulate and test hypotheses	Students will be able to formulate scientific questions and hypotheses and test their hypotheses by applying the scientific method.
			General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
			Identify relationships among concepts	Students will be able to identify relationships among biological concepts across levels of organization (molecular - biome).
			Interpret and evaluate scientific claims	Students will be able to interpret and evaluate scientific claims of others (public figures, media, businesses, etc.).
	BIOL105	Function of the Human Body	General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
			identification of basic human anatomical systems	know the structures of the functional systems of the body
			Physiology	2. Understand the physiology of the organ systems of the human body
	BIOL106	Boat Handling and Navigation	Navigation	The student will learn how to handle and navigate a boat
	BIOL107	Field Biology	Communities	Identify important features of local ecological communities.
			Ecological Principles	Have a fundamental understanding of common ecological principles.
			Identification	Be able to identify common trees, plants, and animals of the area.

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	BIOL121	Human Anatomy and Physiology I	Cell composition	Identify and describe the basic cellular components and their function(s)
			General anatomical terms and regions	Accurately identify body regions, basic tissue types, anatomical structures, and their specialized features and functions
			Tissue homeostasis	Summarize the cellular mechanisms necessary for maintaining normal function of the epidermis, osseous, muscular, and nervous tissues and relate how disruption of these could contribute to various disease states
	BIOL122	Human Anatomy and Physiology II	Clinical applications	Assign roles to each of the organ systems in how they work together to achieve homeostasis in various clinical applications
			General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
			Organ and system functions	Describe how organs work together as a system.
	BIOL131	General Biology: Cells	Basic Chemistry	Identify and describe basic cellular chemistry and biological macromolecules
			Cellular Functions	Identify & describe functions of major cellular components
			General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
			Metabolism	Students will understand important cellular processes including and related to: mitosis, meiosis, fermentation, respiration, photosynthesis, and genetic inheritance
	BIOL132	General Biology:Organisms	Animals	Differentiate among major groups of animals based on evolutionary structures
			Biological classification and phylogenetic analysis	Show competency in biologic classification and phylogenetics
			General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
			Plants	Differentiate among major groups of plants based on evolutionary structures
			Recognize major groups of life on Earth	Recognize unique physical characteristics of the major groups of life on Earth
	BIOL199	Freshman Seminar	Discover interests	Discover areas of biology of interest to you
			Discover ongoing student projects	Discover ongoing student research projects
			Identify faculty areas of expertise	Identify faculty areas of expertise
			Presentation evaluation	Evaluate student presentations and posters
			University Resources	Navigate university resources including the learning center, counseling center, library and scientific journal databases
	BIOL202	Field Botany	collection technique	Use correct plant collection and herbarium technique

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			connections	Reflect on the connection of taxonomy/systematics to evolution, ecology and conservation biology and to student's planned career and personal life
			family traits	Explain the traits of 50 seed-plant families
			Key plants out	Key unknown specimens from the local plant communities using the Voss floral manuals
			nomenclature	Correctly define and use the terminology of plant ID
			Sight ID	Be able to identify plants by sight in the field
			systematics concepts	Explain and apply the rationale of plant systematics at an introductory level, identify evolutionary relationship of select clades
	BIOL203	Fundamentals of Natural Resources	Application Materials	Produce quality job application materials
			Biological and Human Dimensions	Identify the biological and human dimensions that are most relevant to a particular issue
			Job Searching	Find available jobs in your field, for which you are qualified
			NRMC History	Discuss the perspectives and contributions of key historical figures, why and how humans value natural resources, and legislation and organizations (mostly U.S.) that protect and regulate natural resources
			Public involvement	Describe and evaluate public meetings about NRMC
	BIOL204	General Microbiology	Stakeholder positions	Identify, discuss, and role play stakeholder positions for particular issues
			Antimicrobial drugs	Recall key principles of antimicrobial drug mechanisms.
			History of Microbiology	Trace key historical contributions to the discipline of microbiology
			Microbe basics	Recall fundamental facts pertaining to the taxonomy, structure, and physiology of bacteria, viruses, fungi, protozoa, algae, and helminths.
			Microbe-host interactions	Describe relationships between microorganisms and human hosts, including types of relationships, mechanisms of pathology, and mechanisms of immune defense.
	BIOL206	Medical Laboratory Practices	Microbiological experiments	Perform basic microbiological laboratory procedures; interpret results
			Clinical Laboratory Safety	Recognize safe and unsafe laboratory practices in scenarios of clinical laboratory work.
			Lab Management	Define terms and apply concepts pertaining to laboratory management, education, clinical research, communication, and professionalism.
			Lab Math	Consistently perform common laboratory calculations accurately
			Quality Assurance	Describe principles and practices for assuring quality results in the medical laboratory; apply them to clinical scenarios
			Regulation	Outline the main regulatory bodies under which Medical Laboratory Science is practiced in the United States.
			Scope of discipline	Define "Medical Laboratory Science"; describe its scope of practice and relation to other aspects of health care.
			Specimen collection and handling	Recognize and rationalize proper specimen collection and handling techniques.

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	BIOL220	Genetics	Cell Cycle	Students will be able to understand the cell cycle and the processes of mitosis and meiosis.
			Chromosome variation	Students will be able to identify parts of a chromosome and point out variations in chromosome structure and number.
			Molecular Genetics	Students will be able to recognize and discuss the essential elements of DNA replication, RNA transcription, and protein translation.
			Population Genetics	Students will be able to perform population problems using the Hardy-Weinberg equation.
			Transmission Genetics	Students will be able to solve and analyze genetics problems at the multi-gene level and analyze results statistically.
	BIOL223	Clinical Microbiology	Clinical applications	Recall and apply basic principles of microbiological testing and treatment.
			Disease origins	Identify potential microbial pathogens based on patient signs and symptoms
			Epidemiology and Infection Control	Identify situations and practices that promote or prevent the transmission of microbial infections
			Fundamentals	Describe basic principles of microbiology including classification, structure and growth of bacteria, viruses, fungi, and parasites.
			Infectious disease etiology	Connect specific diseases with causative microorganisms
			Specimen management	Proper sampling, handling, and storage of various patient specimens for further processing
			Work Environment	Maintain a safe clinical environment for yourself, your coworkers, and your patients
	BIOL230	Introduction to Soil Science	Characterization	accurately characterize a soil pit
			Communication	communicate soils information in a professional manner
			Differentiation	combine information from soil surveys and field sample analysis to differentiate soil landscape units
			Ecological units	understand and be able to communicate the concept of soil as an ecological unit
			Interaction	communicate the interaction of a soil and its landscape
			Land use	synthesize soils information to make meaningful land use decisions
			Scientific literature	read a scientific article and use higher order thinking skills to evaluate it
	BIOL240	Natural History of the Vertebrates	Adaptation to environmental conditions	Discuss how the major vertebrate taxonomic groups evolved in response to new climatic and ecological conditions
			Natural history	Explain and participate in the process of vertebrate natural history
			Vertebrate diversity	Describe the diversity of vertebrates among and within taxonomic groups
			Vertebrate phylogeny and distinguishing features	Describe the phylogeny of the major vertebrate taxonomic groups and their distinguishing features
			What defines a vertebrate	Distinguish vertebrates from their ancestral pre-chordates
	BIOL243	Vertebrate Anatomy	Defining features	Students will be able to identify the defining morphological features of vertebrates.
			Dissection	Students will conduct systematic dissections of vertebrate specimens and identify selected elements of the skeletal, muscular, coelomic, respiratory, and circulatory systems

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			Evolutionary relationships	Students will be able to describe the evolutionary relationships between vertebrate taxa
			Significant adaptations	Students will be able to explain the significant evolutionary adaptations of each vertebrate class
	BIOL250	Quantitative Biology	Allometry	Students will be able to develop quantitative solutions to problems of allometry in both an individual and group setting.
			Botany	Students will be able to develop quantitative solutions to problems of botany in both an individual and group setting.
			Cell Biology	Students will be able to develop quantitative solutions to problems of cell biology in both an individual and group setting.
			Ecology	Students will be able to develop quantitative solutions to problems of ecology in both an individual and group setting.
			Zoology	Students will be able to develop quantitative solutions to problems of zoology in both an individual and group setting.
	BIOL280	Biometrics	choose stat procedures	students will choose appropriate statistical procedures for given study plans
			design a biological research project	students will be able to correctly specify appropriate sampling, measurement, comparison group selection and statistical analysis for a project of the student's selection (ideally, which would end up being their senior project).
			explain rationale of statistical decision making process	students will be able to explain the following aspects of statistical decision making processes and use them in reaching a conclusion from a statistical test: null and alternative hypotheses, type I and II errors, alpha and power, random sampling and the null distribution, critical values/p-values
			use software	students will show proficiency in using select statistical software systems for analyzing data
			write two results sections	students will be provided data from which they will use the appropriate statistical procedure to analyze the data and write up the results in a format as would be used in a technical report
	BIOL284	Principles of Forest Conservation	Communication	Communicate effectively (written and orally) in the language of a professional forester
			Forest Inventory	Perform basic forest inventory techniques on dominant forest tree species
			Identification	Identify woody plants by twigs, buds, bark, and form.
			Literature	Read and critically evaluate writings in forestry, demonstrating higher order critical thinking skills (see discussion later in syllabus).
			Silviculture	Discuss the basic concepts of silvicultural methods and impacts of their implementation
			Structure and function	Demonstrate a fundamental knowledge of how forest structure and function contribute to forest integrity and sustainability.
	BIOL286	Principles of Watersheds	Awareness of Local and National Issues	Students will recognize and explain local and national water resource problems, including the causes and current management approaches to address them.
			Management Tools	Students will be able to identify tools for managing watersheds and they will be able to apply the correct tool for each management situation
			Watershed Concept	Student will understand the watershed concept, including the physical, chemical, and biological components and processes of a watershed

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	BIOL287	Conservation Biology	Develop practical interdisciplinary approaches to protecting and restoring biological diversity	<p>Critique conservation plans (reserve design, species management plan, etc.) from the perspective of different at-risk species, using appropriate ecological theories and data</p> <p>Determine conservation goals, and prioritize conservation efforts by employing different approaches to prioritization</p>
			Investigate and describe the diversity of the living world	<p>When provided with the appropriate data, evaluate and compare biodiversity between different sites/stands/communities</p> <p>*Recognize and define different types/levels of biodiversity including:</p> <ul style="list-style-type: none"> -Population, species, community, ecosystem -Alpha, beta, gamma diversity -Genetic, species, ecosystem diversity <p>*Calculate, analyze, and interpret diversity metrics</p> <p>Discuss and critique the importance of biodiversity to humans and to the environment</p>
			Understand the effects of human activities on species	<p>Assess the threats to a given species when provided appropriate data</p> <p>*Identify, summarize, and explain the causes and implications of the "biodiversity crisis," including the seven major threats to biodiversity:</p> <ul style="list-style-type: none"> -Habitat destruction -Habitat fragmentation -Habitat degradation -Global climate change -Overexploitation of species for human uses -Invasion of nonnative species -Spread of disease <p>*Understand, generalize, and assess the risks of extinction for a given species</p> <ul style="list-style-type: none"> -Determine what data would be required to assess the risks of extinction -Discuss the role of abiotic and biotic factors in species success/survival <p>*Use the results of a population viability assessment to assess the risk of extinction for a population or species</p> <p>Discuss and critique the ethical implications of human actions on biodiversity</p>
	BIOL289	Aquatic Research Sampling Methods	Sampling	Students will learn and be able to apply various aquatic research sampling methods
	BIOL299	Sophomore Seminar	Ethics	Discussed ethical aspects of research and writing and demonstrated good literature research habits
			Literature Review	Demonstrated your ability to locate appropriate articles and to reformat the information into an original literature review with proper citations
			Presentations	Demonstrated your understanding of what goes into a good scientific presentation through critiques of junior and senior presentations.

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	BIOL302	Invertebrate Zoology	Characteristics	Distinguish between various taxa based on unique characteristics. Demonstrate an understanding of invertebrate identification (ability to use taxonomic keys), structure (morphology), and function (within habitats).
			Critical thinking	Develop and expand upon independent and critical thinking skills
			Literature	Understand and become familiar with the classical and contemporary literature of the discipline, apply critical thinking in evaluating the literature, and engage in collegial discussions of the literature
			Skills	Acquire laboratory and field collection skills: dissection of organisms, field collection techniques, preservation and mounting of organisms, identification using taxonomic keys and use of microscopes (both dissecting and compound).
			Taxa	Understand the basic evolutionary relationships, ecological significance, and natural history of the various invertebrate taxa.
	BIOL303	General Entomology	Demonstrate the ability to navigate through dichotomous keys.	Students should be familiar with basic insect anatomy and associated terminology which will allow them to navigate through dichotomous keys and accurately identify insects to order and family.
			Understanding the importance of insects to humans and the environment	Students should be able to explain the importance of insects and how they may impact our society and the environment.
	BIOL304	The Human Environment	Fixes	Identify whether a proposed environmental solution is a cognitive, structural, or technological fix
			Human dimensions	Explain how environmental problems are ultimately human problems
			Solutions	Generate potential solutions for environmental problems, and evaluate proposed solutions for likely barriers and challenges
			Sustainability	A critical evaluation of the concept of “sustainability” as it relates to individuals and institutions
	BIOL306	Medical Mycology	Etiology	Associate selected species of fungi with specific diseases.
			Identification	Recall key characteristics of selected fungal pathogens. Based on these characteristics, differentiate them from all other species (or at least genera).
			Laboratory techniques	Use standard microbiological laboratory techniques to culture and examine molds and yeasts
			Structural terminology	Use standard scientific terms to describe fungal structures
			Taxonomy	Assign fungi to the correct phylum based on structure and life cycle
	BIOL310	Ichthyology	Adaptations and ecology	Upon completion of the course, students will be able to describe key anatomical and physiological adaptations of fishes, and relate adaptations to a species’ ecology .
			Fish diversity and classification	Upon completion of the course, students will be able to describe the diversity of fishes and how ichthyologists classify fishes
			Fish identification	Upon completion of the course, students will be able to identify fishes using physical characteristics and dichotomous keys
			Fish preservation	Upon completion of the course, students will be able to collect, preserve, and archive specimens
	BIOL311	Mammalogy	Ecophysiology	Students will be able to evaluate the ecological implications of the morphological and

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	BIOL311	Mammalogy	Ecophysiology	physiological adaptations of mammals.
			Lab Skills	Students will be able to identify key characteristics of mammalian teeth and hair commonly used to identify taxonomic status.
			Mammalian Reproduction	Students will be able to explain relationships between the unique reproductive physiology and reproductive behavior of mammals.
			Phylogeny	Students will be able to outline the phylogenetic origins of mammals.
			Population Estimation	Students will be able to apply models to estimate the number of animals in a population using both spreadsheet applications and dedicated software.
			Species Identification	Students will be able to identify mammals of the Great Lakes region by skin, skull, and track.
	BIOL312	Ornithology	Behavior	Develop a fundamental understanding of basic bird behavior
			Biology and Ecology	Develop a fundamental understanding of bird biology and ecology
			Identification	Be able to identify birds of the upper Great Lakes region
	BIOL315	Plant Physiology	Cell Structure & Metabolism	Students will become experts in the cell structure and metabolic activities of higher plants.
			Circadian Rhythms & External Stimuli	Students will be able to explain Circadian rhythms, tropisms, nastic movements to an outside observer.
			Growth & Development	Students will be able to discuss all important aspects of the growth & development of higher plants.
			Plant Nutrition & Water Movement	Students will become familiar with all aspects of water movement, including transpiration and bulk flow within a plant. They will also know all mineral aspects of plant nutrition.
	BIOL330	Animal Physiology	Data Analysis	Be able to analyze data from non-invasive live animal experiments
			Environmental constraints	Understand the environmental constraints imposed on the organism
			Environmental context	Be able to view an animal's physiology in the context of the environment
			Evolutionary Adaptations	Appreciate evolutionary adaptations allowing animals to cope with extreme environments
	BIOL332	Embryology	Cellular differentiation	Students will be able to evaluate possible mechanisms of cellular differentiation that occur during development.
			Developmental processes	Students will be able to describe fundamental developmental processes.
			Embryological stages	Students will be able to explain how developmental processes relate to specific embryological stages (e.g. gastrulation, neurulation, and organogenesis) in vertebrates.
			Embryonic anatomy	Students will be able to identify major anatomical structures of vertebrate embryos in successive developmental stages.
	BIOL333	Fish Ecology	Communities	(2) identify and explain how humans affect fish communities and predict how they could affect them in the future
			Interactions	(1) describe and predict ecological interactions of fishes at the individual, population, and community levels
			Literature	(3) interpret, summarize, and analyze scientific results and writing from classic and current fish ecology literature
			Writing	(4) create well-written scientific summaries that synthesize what is known about topics in fish ecology

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	BIOL335	Principles of Animal Nutrition	Digestive systems	Students will be able to describe in detail, the anatomy and physiology of vertebrate digestive systems.
			Food composition	Students will be able to describe the presence, availability, and digestibility of nutrients in forage, grains, & concentrates
			Nutrition management	Students will be able to synthesize information relating to digestive anatomy & physiology, forage quality, and nutritional requirements and apply this information to the nutritional management to livestock, poultry, fish, and pets.
			Nutritional requirements	Students will be able to explain the effects of species, age, gender, and status of animals on their nutritional requirements.
	BIOL337	General Ecology	explain concepts and their applications	students will be able to explain concepts and applications to management in various media and in language suitable for nontechnical audiences
			field work	Conduct specified ecological field measurements and prepare a written report based on that information,
			management applications	Respond to specific management alternatives in specific scenarios
			pose hypotheses and recommendations	students will pose hypotheses about ecological processes pertinent to specific scenarios
	BIOL339	Wildlife Ecology	Ecosystem impacts	Students will be able to demonstrate the role animal populations play in communities and ecosystems.
			Environmental factors	Students will be able to identify biotic and abiotic factors that may impact animal populations.
			Population models	Students will be able to use and manipulate basic models of population dynamics.
			Population processes	Students will be able to demonstrate effects of competition, predation, and pathogens on population dynamics.
	BIOL345	Limnology	Analysis and Writing	Strengthen data analysis, scientific writing, and communication skills
			Knowledge	Understand how water's properties shape the chemical and physical environment (e.g., light, flow, density) of aquatic ecosystems
			Technical Skills	Be able to demonstrate proficiency in applying common limnological techniques and analyses to assess the condition of lakes and streams
	BIOL372	Freshwater Fish Culture	Aquaculture	(4) describe the ecological effects of aquaculture programs
			Contribution	(3) contribute to the operation and maintenance of an aquaculture program
			Fisheries	(1) describe why and how people raise fishes for commercial and management purposes
			Programs	(2) describe the fundamentals of water quality, nutrition, and disease management in rearing programs
	BIOL380	Clinical Hematology and Hemostasis	Assay interpretation	Use hematologic laboratory data to draw accurate conclusions concerning patient health and suggest appropriate courses of action.
			Blood physiology	Recall principles of erythrocyte, leukocyte, platelet, and coagulation physiology
			Hematologic assays	Recall principles of routine hematologic and coagulation assays.
			Laboratory techniques	Accurately and safely perform basic manual hematologic tests.
			Professionalism	Students will be characterized by responsible, communicative attitudes and behavior.

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			Quality Assurance	Evaluate the quality of hematologic specimens and assay results
	BIOL385	Principles of Epidemiology	Communication	The student will be able to communicate information health and risks to health to a general public audience.
			Critical Evaluation	The student will be able to critically evaluate epidemiological information and the role of governments in protecting public health.
			Public Health	The student will be able to describe the various factors involved in determining public health issues
	BIOL389	Internship in Biology	Communication	Student will gain important communication skills by keeping a journal of all internship activities.
			Work Plan	At the conclusion of BIOL 389 students will have developed specific skills as outlined on their work plan.
	BIOL398	Planning an Experiential Learning Project	Communicate the project plan	Communicate your project plan to other students and professionals.
			Identify ELP organizations	Identify and describe organizations with which to complete your ELP.
			Project plan	Develop a project plan, including a problem statement, project objectives, and approach based on literature and other materials.
	BIOL399	Junior Seminar	Design	<ul style="list-style-type: none"> Demonstrate a basic understanding of the scientific method by designing a senior thesis project
			Literature	<ul style="list-style-type: none"> Demonstrate critical analysis and synthesis of scientific information (e.g., literature) via class assignments
			Preparedness	<ul style="list-style-type: none"> Be prepared to carry out their senior thesis research
			Presentation	<ul style="list-style-type: none"> Demonstrate skill in presenting scientific information in written and oral formats via class assignments
	BIOL405	Animal Behavior	Behavior	<ul style="list-style-type: none"> develop an understanding of the mechanisms and evolution of animal behavior
			History	<ul style="list-style-type: none"> be familiar with the history of the scientific study of behavior
			The ways	<ul style="list-style-type: none"> understand the ways in which animals survive, obtain resources, and reproduce
			Tools	<ul style="list-style-type: none"> be familiar with the tools and approaches used to study behavior
	BIOL406	Immunohematology	Affective	Student will be characterized by responsible, communicative attitudes and behavior
			Antibody characteristics	List the immunologic properties of antibodies against blood group antigens
			Blood product rules	Name the correct requirements for collection, screening, and storage of blood products
			Cognitive	Student will be able to describe the inheritance and molecular basis of blood group antigens
			Immunohematologic test interpretation	Given clinical and laboratory data concerning a patient, including the results of immunohematologic testing, select the appropriate blood product with which to treat him or suggest additional tests.
			Psychomotor	Student will be able, accurately and safely, perform blood typing assays, routine antibody screens, and identify antibodies detected in the antibody screens
			Transfusion reaction recognition	Given clinical and laboratory data concerning a patient, identify whether he is experiencing a transfusion reaction, and if so, and which type it is.

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	BIOL420	Evolutionary Analysis	Evolutionary Theory	Student will apply empirical evidence to evolutionary theory
			Fitness	Student will explain fitness as it pertains to individuals, populations and species
			Hardy-Weinberg Principle	Student will demonstrate their ability to apply the Hardy-Weinberg Principle
			Milestones	Students will know major milestones in the history of evolutionary from the 1500's to the present
			Selection	Student will explain the processes of natural selection, kin selection and sexual selection
	BIOL421	Advanced Cell & Molecular Biology	Cell Metabolism	Students will be able to describe the similar & unique aspects of aerobic and anaerobic respiration, fermentation, and photosynthetic processes.
			Enzyme Kinetics	Students will be able to classify the enzymatic effects of a given drug or toxin.
	BIOL422	Parasitology	Diagnosis	5. Show competency in diagnosing parasitic infections using proper techniques
			Identification	4. Correctly identify parasites of medical and veterinary importance in both adult and juvenile stages
			Infection	3. Assess potential for prevention of infection with various parasites in light of ecological factors related to specific life cycles
			Life cycle	1. Draw and explain life cycles of major parasites of concern for human and veterinary health
			Phyla	2. List and provide examples of several parasites in each of the major phyla of parasites
	BIOL423	Immunology	Deficiency	• Predict the consequences of a deficiency in one particular component of the immune system
			Disease	Explain how abnormal immune function can cause disease
			Immunity	• Describe the process of immunity, including the regulatory controls of the immune system
			System	• Name and describe the principal organs, cells, and molecules of the immune system and their function
	BIOL425	Virology	General concepts of virology	Students should be able to know the history of virology and basic nature of viruses
			Taxonomy and replication of viruses	Students should be able to identify and classify certain virus to a different family or genus depend on their structural characteristics and can describe the life cycle of typical viruses in each family.
			Viral diseases and control of viral diseases	Students should understand the pathogenic mechanisms of various viral diseases and know some control strategies
			Virological lab skills	Students should master the cell culture techniques and could culture and measure viruses by using cultured cells; Students should be able to diagnose viral diseases by using ELISA technique
	BIOL426	Ecology of Animal Disease	Basic concepts of Ecology and infectious diseases	Understand the basic concepts of ecology of infectious diseases
			Effects of ecosystem on animal health	Recognize the importance of functional ecosystems to the health of wildlife as well as the public health of human beings.

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			Effects of infectious diseases on ecosystem	Explain how the infectious diseases can affect the dynamic changes of ecosystem
			Host-pathogen interaction at population level	Understand the interaction of infectious diseases and ecosystems especially the relationship of environment and animal health at the population level.
	BIOL432	Fisheries Management	Data analysis & reporting	(1) analyze fishery data to quantify population characteristics and effectively communicate results in writing
			Job application materials	(4) compile a high-quality job application package
			Written management plan	(2) prescribe appropriate management actions based on results of data analysis and prepare a written fishery management plan
	BIOL433	Histology	Advanced Cellular	Understand and differentiate cellular structure by general and specific features
	BIOL434	Histopathology	Cells	1. understand the types of cells in different organ systems
			Disease	4. identify and distinguish healthy and pathogenic tissues
			Identification	3. sight identify cells and tissues from images
			Photography	5. take high quality digital picture of cells and tissues
			Techniques	2. learn the basic skills and histotechniques
	BIOL437	Plant Ecology	Niches	• Describe niche dimensions of select plant species and write a study plan for a specific investigation
			Processes	• Describe population processes of select plant species and develop a visual presentation of those processes for a species
			Statistics	• Develop statistical descriptions of plant community structure for select plant communities and write a technical report based on those descriptions
			Status	• Review the conservation status of select plant communities in Michigan
			Theories	• Synthesize current theories of plant community development and relation of plant community structure to ecosystem function and write an initial annotated bibliography on a specific topic in that area
	BIOL439	Wildlife Management	ARM	Students will be able to design Adaptive Resource Management (ARM) plans for implementing management interventions.
			Conservation & Control	Students will be able to implement sound strategies for the conservation and control of wildlife populations.
			Field Techniques	Students will be able to employ common wildlife management techniques (e.g. habitat measurements, chemical immobilization, telemetry).
			Harvest Management	Students will be able to apply common procedures for developing harvest strategies for wildlife populations.
			Population Management	Students will be able to synthesize information (distribution, habitat requirements, harvest regulations, etc.) from various sources (lecture, primary literature, agency reports, etc.) for a specific wildlife population.
	BIOL450	Laboratory Apprenticeship	Aquarium 1	1) Developing a manual for troubleshooting problems with tank maintenance.

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			Aquarium 2	2) Creating posters and decorating cabinets with educational materials
			Aquarium 3	3) Other outreach activities as necessary
			Aquarium 4	4) Overseeing fund raising activities such as popcan recycling
	BIOL455	Clinical Chemistry & Body Fluids Analysis	Analysis methods	Describe method(s) for analysis of selected chemical substances in blood and other body fluids.
			Error identification	Identify causes of potentially false or misleading results of chemical analysis of blood and body fluids.
			Laboratory technique	Accurately and safely perform basic manual chemical analyses of blood and body fluids.
			Physiology	Recall physiologic and pathological processes causing increased or decreased levels of selected chemical substances in blood and body fluids.
			Professionalism	Students will be characterized by responsible, communicative attitudes and behavior.
			Result Interpretation	Given results of laboratory analysis of chemical substances in blood or other body fluids, identify possible medical conditions causing those results.
			Specimen collection and handling	Identify appropriate specimens and collection techniques for selected chemical analyses of blood and body fluids.
	BIOL460	Clinical Internship	Clinical test procedures	For the following areas of the clinical laboratory: Clinical Chemistry Hematology Blood Bank Microbiology Coagulation/hemostasis Urinalysis Immunology/Serology Students will: Successfully perform routine processing and testing of clinical specimens with minimal supervision
			Professionalism	Students will exhibit professional behavior and attitudes including punctuality, etiquette, personal responsibility, and concern for patient welfare throughout their clinical experience.
			Quality	For the following areas of the clinical laboratory: Clinical Chemistry Hematology Blood Bank Microbiology Coagulation/hemostasis Urinalysis Immunology/Serology Students will: Perform daily and weekly quality control assays and maintenance with minimal supervision, recognize when quality control results are unacceptable, and take appropriate measures to

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			Quality	correct them
			Relate data to principles	<p>For the following areas of the clinical laboratory:</p> <p>Clinical Chemistry Hematology Blood Bank Microbiology Coagulation/hemostasis Urinalysis Immunology/Serology</p> <p>Students will: Relate practices and data observed in the clinical laboratory to chemical, biological, and physiological principles learned in previous MLS courses</p>
			Test interpretation	<p>For the following areas of the clinical laboratory:</p> <p>Clinical Chemistry Hematology Blood Bank Microbiology Coagulation/hemostasis Urinalysis Immunology/Serology</p> <p>Students will: Correctly interpret results of clinical laboratory tests</p>
	BIOL470	Restoration Ecology	Approaches	3. common restoration approaches for terrestrial and aquatic ecosystems
			Overview	1. the history, development, and practice of restoration ecology
			Principles	2. key ecological principles relevant in ecosystem restoration
			Processes	4. the process of planning, implementing and evaluating restoration projects
	BIOL475	Aquatic Entomology	Identification Skills	Be able to identify common insect taxa that occur in freshwater habitats
	BIOL480	Advanced Clinical Microbiology	Integration of knowledge and laboratory techniques	Students will use standard microbiological laboratory techniques to culture, isolate, and identify selected microorganisms
			Microbial identification	Recall key characteristics of selected microbial pathogens. Based on these characteristics, differentiate them from all other species.
			Pathogenicity	Students will associate selected species of microorganisms with specific diseases
			Specimen collection and handling	Students will recognize correct procedures for isolating disease-causing microorganisms from patients.
	BIOL490	Independent Study in Biology	Independent Study	Student will obtain extensive knowledge about an advanced biology topic not offered as a regularly scheduled course.
	BIOL495	Senior Project	Critical Thinking	The student will sharpen his/her critical thinking and scientific data collection and analysis skills

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Professionalism	The student will maintain a high level of integrity, responsibility, and professionalism in every aspect of his/her senior thesis experience.
			Scientific Method	The student will demonstrate an understanding of the scientific method in carrying out his/her senior thesis research.
	BIOL497	Experiential Learning Project	Documentation	The student will document the implemented Approach for the experiential learning project in writing.
	BIOL499	Senior Seminar	Honing	3. Hone your critical analysis, critical thinking, and scientific data presentation skills.
			Integrity	4. Maintain a high level of integrity, responsibility, and professionalism in every aspect of your senior thesis experience.
			Presentation	2. Effectively present scientific data in written, visual, and oral formats.
			Research	1. Demonstrate an understanding of scientific methods in carrying out and completing your senior thesis research project/experimental learning projects.
TheCourses - Business: ACTG, BUSN, DATA, ECON, FINC, INTB, LAWS, MGMT, MRKT, OFFC	ACTG132	Principles of Accounting I	Accounting Cycle	Perform each step in the accounting cycle
			Accounts	Identify the type and describe the nature of each account
			GAAP	Apply Generally Accepted Accounting Principles to business transactions
			Need for Financial Accounting	Describe the need for financial accounting and the users of accounting information
	ACTG133	Principles of Accounting II	Budgets	Prepare budgets for profit planning
			Capital Budgeting Analysis	Perform capital budgeting analysis
			Cost Classifications	Classify costs used in making decisions
			Cost-Volume-Profit Analysis	Perform cost-volume-profit analysis
			Differential Analysis	Perform differential analysis
			Recording Cost Flow	Record the flow of costs through the manufacturing process
	ACTG232	Intermediate Accounting I	Accounting Process	Understand and apply the steps in the accounting process.
			Assets & Liabilities	Explain, analyze and apply the proper accounting and values of current and noncurrent assets and liabilities on the balance sheet.
			Financial Statements	Develop and analyze income statements, balance sheets, and statement of retained earnings using appropriate formats
			Framework of Accounting	Summarize the major components of a conceptual framework of accounting.
			Inventories	Explain and apply the various methods of how to value and account for inventories
			Property, Plant & Equipment	Explain and apply the accounting for property, plant and equipment acquisitions, dispositions, utilization and impairments
			Time Value of Money	Apply the accounting functions related to the time value of money.

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	ACTG233	Intermediate Accounting II	Changes and Error Corrections	Differentiate among the three types of accounting changes and describe how each is reported. Understand the accounting for changes in estimates. Apply the four-step process of correction and reporting errors.
			Income Taxes	Analyze the temporary and permanent differences in tax and book income. Determine the accounting treatment for deferred tax assets and liabilities. Understand how operating loss carryforward and carrybacks are recognized in financial statements.
			Investments	Demonstrate how to identify and account for investments under various classifications and ownership proportions.
			Leases	Identify and classify various types of lease arrangements and account for the transactions associated with each.
			Liabilities	Account for the issuance of various types of short term and long term notes, bonds, contingencies, and advance collections, including issuance at premium, discounts, retirement and conversions issues associated with debt instruments.
			Pension and Other Postretirement Benefits	Distinguish and account for defined contribution plans and defined benefit plans, and other postretirement benefits.
			Share Based Compensation and EPS	Account for the various types of share based compensation plans. Calculate weighted average share, compute basic earnings per share and diluted earnings per share applying the impact of dilutive securities.
			Shareholders' Equity	Develop the components of shareholders' equity and the various underlying transactions that impact equity. Account for corporate dividends, stock dividends, stock splits, and property dividends.
	ACTG332	Cost Management I	Budgeting	Describe the roles of budgets and prepare a master budget and supporting schedules.
			Cost Allocations and Projections	Understand and apply various methods to estimates costs and apply breakeven analysis, and build CVP planning models.
			Cost Concepts	Demonstrate how costs flow through accounting in product and service companies by applying various costing and allocation methods to transactions and preparing financial statements.
			Cost Management and Strategy	Explain how cost management information is used in business strategies and the ethical responsibilities of accountants.
	ACTG333	Cost Management II	Capital Investments	Determine relevant cash flows associated with capital investment projects and apply discounted cash flow decision models for capital budgeting purposes. Discuss uncertainty and behavioral issues related to capital budgeting and investments.
			Investment Centers	Compute and analyze return on investment (ROI), residual income (RI), and economic value added (EVA) for evaluating investment center performance and explain the use and limitations of each. Evaluate transfer pricing alternatives and international issues that arise in developing transfer prices.
			Management Compensation and Business Valuation	Identify and explain various management compensation types, characteristics of a bonus plan and underlying calculations. Describe the role of tax planning and financial reporting in management compensation. Apply the different methods for business analysis and business valuation.
			Strategic Decision Making	Use relevant cost analysis and strategic analysis for decisions relating to special orders, make,

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Strategic Decision Making	lease or buy decisions, further processing of joint products, keep or drop products and services, and evaluating product mixes including the behavioral, implementation and legal issues involved.
	ACTG334	Accounting Information Systems	Documentation Techniques	Develop documentation of an AIS
			Internal Control	Understand the proper control environment to oversee and control AIS processes
			Management and Information System Concepts	Identify events in the core business processes and explain how events are stored in a relational database and understand IT infrastructure including the need for data collection and storage.
			Relational Database	Develop relational databases for business processes
	ACTG350	Income Tax Practicum	Client Interaction	Students will be able to communicate and work with clients from various backgrounds in a professional manner.
			Return Preparation	Students will be able to prepare basic federal and Michigan individual income tax returns using client source documents.
			Tax Preparation Software	Students will be able to proficiently operate the income tax preparation software.
	ACTG421	Federal Taxation Accounting I	Deductions	Identify the items and calculate the amount of personal and business deductions and losses included in determining taxable income
			Income	Identify the items and calculate the amount of personal income and gains included in determining adjusted gross income.
			Income Tax Formula	Apply the Federal Income Tax Formula
			Tax Law Administration	Explain the origin, administration and structure of the U.S. Federal Tax Law
			Tax Return Preparation	Prepare a basic individual income tax return by hand
	ACTG422	Federal Taxation Accounting II	Corporate Taxation	Students will be able to apply basic corporation tax rules.
			Partnership Taxation	Students will be able to apply basic partnership tax rules.
			S Corporation Taxation	Students will be able to apply basic S corporation tax rules.
			State Taxation	Students will be able to compute a multistate corporation's state tax liability
	ACTG427	Auditing	Audit Process	Describe each major step in the audit process
			Audit Purpose	Describe the purpose of and an auditor's role in financial statement audits
			Audit Report	Create a standard and modified audit report
			Code of Conduct	Apply the Rules in the AICPA Code of Conduct
			GAAS	Apply the AICPA Generally Accepted Auditing Standards
	ACTG432	Advanced Accounting I: Consolidations	Bankruptcy and Reorganization	Explain the basic legal aspects of bankruptcy and prepare journal entries and statements for Chapter 7 bankruptcy and Chapter 11 reorganizations.
			Foreign Currency Transactions	Apply translation and remeasurement procedures for consolidation of international subsidiaries and describe how exchange rates affect financial analysis. Compare and contract

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Foreign Currency Transactions	GAAP and IFRS related to consolidated financial statements.
			Intercompany Investments	Describe the accounting and reporting for intercompany investments with controlling and non-controlling interests.
			Mergers and Acquisitions	Measure, evaluate, and account for the assets and liabilities and intercompany transactions in mergers and acquisitions and prepare consolidated financial statements for varying points in time for wholly owned subsidiaries and those with minority interests.
			Partnership Accounting	Analyze and understand partnership formation, allocation of income, admissions and retirements of partner and partnership liquidations and create entries to record these transactions.
	ACTG433	Advanced Accounting II: Governmental	Budgetary Accounting and Reporting	Explain the role of the budget and prepare budgetary entries.
			Governmental Funds	Analyze situations and prepare journal entries and financial statements for governmental funds.
			Non-Governmental Not-For-Profit Organizations	Analyze situations and prepare journal entries and financial statements for non-governmental not-for-profit organizations, including colleges and universities and health care organizations.
			Proprietary Funds	Analyze situations and prepare journal entries and financial statements for proprietary funds.
	BUSN121	Introduction to Business	Business and its Environment	Define the nature of business and its environment
			General Education Social Science	Think critically and analytically about the causes and consequences of human behavior
			Global Market	Discuss the importance of the global market and the roles of comparative advantage and absolute advantage in global trade.
			Management Concepts	Discuss various management concepts and organizational structures
			Social Changes	Analyze the social changes affecting business today.
			Technology	Describe the effects of technology on the business environment
			Vocabulary	Develop a general business vocabulary
	BUSN211	Business Statistics	Bivariate Analysis	Be able to test, analyze, and interpret the relationship between two or more variables.
			Descriptive Statistics	Be able to compute, understand, and explain basic descriptive statistics.
			Hypotheses Testing	Be able to conduct hypothesis tests and apply the results to business decision making.
			Sampling Distribution Theory	Understand sampling distribution theory and how it relates to statistical inference.
	BUSN231	Business Communications	1	1. Be able to work in teams and have listening and etiquette skills
			10	10. Be able to search for jobs and prepare a professional resume and cover letter
			11	11. Be able to successfully interview for a job and follow-up on the interview
			2	2. Be able to communicate across cultures
			3	3. Be able to analyze, anticipate, and adapt to the writing process
			4	4. Be able to compose e-mail messages and memos

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			5	5. Be able to compose positive letters and messages
			6	6. Be able to create persuasive and marketing messages
			7	7. Be able to convey negative messages
			8	8. Be able to prepare business reports
			9	9. Be able to give business presentations
	BUSN308	Managing Cultural Differences	Define Diversity Dimensions	3. Recognize and define diversity dimensions/factors. (See course description on the previous page.) (Question on Test)
			Diversity Case Analysis	4. Show understanding of the diversity issues affecting communications, interpersonal relations, and productivity by applying an understanding of differences and similarities to case studies. (Case Analysis)
			Diversity research	2. Identify and use several web, library, and organizational resources available to better understand diversity issues. (Discussion assignment)
			General Education - Diversity	Course Objectives: At the conclusion of BUSN308 students will be able to do the following: Explain the meanings and give examples of individual perspectives of diversity, social identity perspectives on diversity, organizational diversity and inclusion.
	BUSN350	Business Law I	Elements of a valid contract	Students will be able to explain the essential requirements of a valid contract, how parties enter into a contract (ie: offer and acceptance), what types of contracts the law requires to be in writing, and what options are available in case of a breach
			Personal Property and Bailments	Students should be able to explain the difference between real and personal properties, various types of gifts, multiple types of ownership of personal property, and will be able to explain the concept of bailment and the duties of the bailer and bailee.
			Sales of Goods	Students will become familiar with Article 2 of the UCC which covers sales transactions and product warranties, as well as liabilities
	BUSN355	Business Law II	Agency and Employment Relationships	Students will be able to differentiate between an agent, principle, and independent contractor and understand how each of these relationships apply in business. Students will understand the contractual nature of employment relationships and the various laws associated with labor relations.
			Commercial Paper	Students will be able to understand essential elements of negotiable instruments, mechanics of negotiation, holder in due course rights vs. assignees rights, and liabilities of the bank for improper payment, or stop payment, forgeries and alterations.
			Corporations	Students will understand corporate structure, including board of directors role, mechanics of transferring stocks, insider trading, federal securities laws, liability of stockholders, and short-swing profit.
			Partnerships	Students will understand partnership characteristics, liabilities, general partners, limited partners, filing requirements, and decision making rules within partnerships.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	BUSN399	Internship in [Discipline]	Internship	Students have an opportunity to earn credit while obtaining meaningful discipline-related work experience outside the classroom, spending a minimum of 45 work hours per credit hour.
	BUSN403	Business, Government and Society	1	1. Successful students will know and understand the ten principles of economics.
			10	10. Successful students will be able to explain the efficiency of the market incentive approach to externalities as opposed to command and control techniques.
			12	12. Successful students will be able to compare and contrast three ethics systems: utilitarianism, the Categorical Imperative, and the John Rawls system of Justice as Fairness.
			13	13. Successful students will be able to describe comparative advantage and the gains from trade.
			14	14. Successful students will be able to evaluate management in terms of shareholder value creation.
			2	2. Successful students will be able to identify and discuss nonmarket issues in terms of the "4 Is" Issues, Interests, Institutions, and Information.
			3	3. Successful students will be able to understand what motivates the media, and the role it plays in establishing a nonmarket strategy.
			4	4. Successful students will be able to understand what motivates activists and how to deal with them successfully as part of a nonmarket strategy.
			5	5. Successful students will be able to anticipate political outcomes using the Wilson-Lowri Matrix.
			6	6. Successful students will be able to compare and contrast the three schools of antitrust thought.
			7	7. Successful students will be able to identify the four major periods of regulation and the differences among them.
			8	8. Successful students will be aware of, and be able to critically evaluate, explanations for the Great Recession.
			9	9. Successful students will be able to apply the Coase Theorem to externalities.
			nonmarket issues	students will write a paper assessing the degree to which a company' nonmarket strategy contributes to maximization of shareholder value.
	BUSN466	Business Policy	Business Disciplines	Understand, integrate, and value the relationships across business disciplines
			Business Practices	Distinguish real world problems and demonstrate the application of solutions from theoretical frameworks and business practices.
			Business Structures	Analyze and compare the various techniques, strategies, and structures in Business.
			Content	Synthesize and apply content from their undergraduate courses and other learning opportunities to better understand real world situations.
	BUSN491	Research Reading in Business and Economics	1	1. Analyze the U.S. discrimination laws and Canadian labour relations laws by evaluating key components of each law
			2	2. Describe the compliance program associated with each law

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			3	3. Outline the record keeping/reporting requirements of each law
			4	4. Create a resource file to be used in student's future work.
	ECON201	Principles of Macroeconomics	General Education - Social Science	Think critically and analytically about the causes and consequences of human behavior
	ECON202	Principles of Microeconomics	1. Understand price/quantity relationship.	1. Analyze the impact of a multiple of events on price and quantity.
			2. Understand elasticities.	2. Calculate and interpret elasticities and their effect on revenue.
			3. Price floors and ceilings	3. Be able to evaluate the impact of price floors and ceilings on price and quantity.
			4. Profit maximization and production functions.	4. Be able to utilize marginal analysis to maximize profits on a given production function.
			General Education - Social Science	5. Think critically and analytically about the causes and consequences of human behavior
	ECON302	Managerial Economics	General Education - Social Science	Think critically and analytically about the causes and consequences of human behavior
	ECON304	Money, Banking and Monetary Policy	1	1. Explain how the banking system functions.
			2	2. Understand how the monetary system and banking system interact.
			3	3. Explain how various financial instruments are used to reduce risk.
			4	4. Understand the term structure of interest rates and the role it plays in banking.
			5	5. Explain how banks generate revenue today.
	ECON305	Public Finance	Natural Monopoly	students will know that when Average Costs is greater than Marginal Cost the market failure is Natural Monopoly
			Tax transparency	Students will recognize the transparency or lack thereof for specific taxes
	ECON307	Environmental Economics	alternative approaches for controlling emissions	Students will know that incentive approaches to control are in general more efficient than command and control approaches.
			efficient level of pollution	students will know the theory of efficient allocation
			property rights	students will understand property rights and competition lead to efficient outcomes.
	ECON308	Intermediate Microeconomics	Cause of changes in consumer behaviour	Understand the effects of changes in income, taste and substitutes on consumer behaviour.
			Consumer behaviour	Understand consumer behaviour, utility theory and consumer optimization.
			Elasticity	Understand and calculate elasticity and its effect on revenue.
			Price restrictions	Understand price floors and ceiling and taxes and their effect on price and quantity.
			Supply and Demand	Understand the basic market concepts of supply and demand.
	ECON309	Intermediate Macroeconomics	1	1. Demonstrate an understanding of how and why key economic variables are collected and measured.
			2	2. Analyze and interpret key facts concerning business cycles.
			3	3. Develop macroeconomic models.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			4	4. Demonstrate an understanding of the ramifications of economic shocks.
			5	5. Explore the dynamics of consumer savings and the consumer/firm model.
	ECON408	International Economics	Advantages	Describe comparative and absolute advantage as a basis for specialization
			Barriers	Explain the economic impact of tariffs and nontariff trade barriers.
			Comparative advantage	Describe sources of comparative advantage
			Exchange Rate	Explain International exchange rate determination
			Monetary policy	Understand the impact and ramifications of monetary policy in an open economy
	FINC242	Personal Finance	Investing	Demonstrate an understanding of the basics of personal investing.
			Personal Financial Statements	Students will be able to develop and understand personal financial statements.
			Personal Planning	Students will be able to demonstrate the basics of personal financial planning.
			Retirement	Demonstrate the understanding of retirement planning, estate planning and intergenerational wealth transfer.
			Tax planning	Demonstrate the understanding of taxes and tax planning and preparation
			Wealth development	Students will demonstrate a basic understanding of budgeting, wealth accumulation and debt.
	FINC245	Principles of Finance	1	1. Analyze and interpret financial statements.
			2	2. Demonstrate an understanding of different corporate structures.
			3	3. Demonstrate the effects and risk of leverage on a company.
			4	4. Perform basic capital budgeting for a small business.
			5	5. Demonstrate the use of financial planning for a small business.
	FINC341	Managerial Finance	Return on equity	students will know how to compute the return on equity.
			The yield curve	Students will be able to interpret the yield curve.
			WACC	70% of students will correctly calculate the WACC
	FINC443	Insurance	1	1. Students will be able to identify different types of risk, and how each can be managed.
			10	10. students will understand corporate liability to customers, third parties, and shareholders.
			2	2. Students will understand that risk is costly and reduces the value of the firm.
			3	3. Students will understand how pooling reduces risk.
			4	4. Students will understand the role of capital in risk reduction, solvency, and regulation
			5	5. Students will understand how insurance companies price policies.
			6	6. Students will understand how the tort system creates incentives for the optimal amount of risk.
			7	7. Students will understand the key components of life, homeowners, and auto insurance policies.
			8	8. Students will understand the role of retirement plans and social security in managing longevity risk.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			9	9. Students will learn how to hedge risk using derivative contracts.
	FINC446	Financial Analysis and Policy	2. WACC formula	2. know the “best Practices” used to estimate the Cost of Equity and the Weighted Average Cost of Capital.
			3	3. memorize key financial ratios; know how to apply them and their limitations.
			4	4. memorize the Hamada equation and know how to apply it.
			5	5. know how to allocate capital resources based on the risk adjusted Net Present Value.
			6	6. know two methods used to estimate Terminal Value and why it’s important.
			7	7. understand how debt shields add market value.
			8	8. understand how to hedge using options, forward contracts, and futures and the advantages and disadvantages of each.
			9	9. how corporate acquisitions are evaluated and financed.
	FINC448	Investment Strategy	Bond yield	The student will be able to calculate and understand the differences of coupon, current yield, and yield to maturity.
			Capital Asset Pricing Model	The student will be able to estimate the required return of a security using the Capital Asset Pricing Model.
			Dividend Discount Model	The student will be able to estimate the value of a security using the Dividend Discount Model.
			Duration	The student will understand the concept of duration and its use in immunizing portfolios.
			Efficient markets	The student will be able to describe and critique the Efficient Market Hypothesis in the Weak, Semi Strong, and Strong form.
			Mutual funds	The student will know the advantages and disadvantages of mutual funds as investments.
			Options	The student will know the most popular options and demonstrate how they can be used to increase or decrease risk.
			portfolio diversification	The student will recognize and be able to construct a diversified portfolio.
			Psychological biases	The student will know the biases that can prevent investors from earning the return they should given the level of risk assumed.
	INTB375	International Business Law	Business risk	Explain how international business law affects business risks, opportunities and profitability of business ventures.
			Business transactions	Create effective corporate international business strategies in executing international business transactions
			International Agreements	Recognize the relations between public organizations and international agreements.
			International Trade	Apply and facilitate international business transactions
			Legal systems	Examine legal systems in the practice of international business and International business law
	INTB389	Competing in the Global Market Place	Cultural, Political, Economic and Ethical Issues	Identify cultural, political, economic and ethical issues that impact the development of successful international management initiatives.
			Evaluate Issues	Demonstrate an ability to critically evaluate issues that arise in the conduct of international business
			General Education - Diversity	Vie the world from cultural perspectives other than their own

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			Globalization	Understand the concept of globalization and be able to identify factors that drive globalization and current trends.
			International Management Theories	Define and understand current international management theories and Practises
			Strategies	Identify business conditions to match strategies to internationalize a firm
			Trade Theory	Demonstrate an understanding of how trade theory and trade practice impact global businesses and their role in the formation of regional economic groups.
	INTB420	International Comparative Management	Factors of Classifications	Compare and contrast global, multinational and transnational corporation and the factors that define these classifications.
			Management style	Analyze the problems and trade offs faced by corporations as they transition from one category to another while changing their management style
			Management styles	Compare and contrast the structure and management styles of multi-national corporations based on their origin, objectives, capabilities, experience and cultural environment.
			Managerial Values	Identify managerial values, attitudes and behaviors within specific host countries
	INTB486	International Marketing	Global Market Research	Evaluate and apply main components of global marketing research.
			Models	Analyze management models related to global marketing and construct a model for marketing selection
			Terminology	Define, recognize and assess differences in terminology: international, multinational and global marketing.
			World Market	Analyze and assess 4 P's strategies for the world market.
	MGMT280	Introduction to Management Information Systems	Business Intelligence	Students will be able to apply MIS theories and technologies to business analytics & business intelligence such as data analysis, data mining.
			Contemporary Information Systems	Students will acquire working knowledge of business applications such as SCM systems, CRM systems, HRIS, etc.
			Information Management	Students will gain a solid understanding of globalization & information management in global society.
			Information Security	Students will be able to address privacy, security & ethical issues involving information systems management
			Information Systems Applications	Students will be able to design & develop spreadsheet, web, & database applications for business decision-making.
			Information Systems Concepts	Students will be able to evaluate, select, and use automation and support systems, TPS, MIS, DSS, expert systems , enterprise systems such as ERP systems as applied to business operations and management.
			Information Techonology	Students will be able to identify the major components of a computer system, such as hardware, software, network and Internet technology as they apply to information systems.
			SDLC & Project Management	Students will conduct systems development projects on business applications using the SDLC approach systems planning, analysis & design, and implementation.
	MGMT360	Management Concepts	Case Study	Students will be able to analyze case studies by applying managerial theory.

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	MGMT360	and Applications	Case Study	Students will be able to analyze case studies by applying managerial theory.
			Management Applications	Students will be able to explain the current challenges facing managers and how managers/leaders handle these changes.
			Management Functions	Students will be able to discuss the functions of management and how these are manifested in the workplace today.
			Management Theories	Students will be able to explain the historic evolution of management thinking and why this thinking has changed based on issues and challenges, both internal and external to the organization.
			Self-Analysis	Students will continually conduct a self-analysis to understand one's personal understanding of management and leadership demands and skills.
	MGMT365	Human Resource Management	Ethics	Students will be able to describe the importance of ethics and social responsibility throughout the human resource management system.
			Globalization	Students will understand how globalization affects human resource management, and identify human resource trends.
			HR Topics	Students will be able to discuss the labor force diversity and its impact on the HRM system, discuss safety and health issues, discuss training and development, career planning and compensation issues, specifically performance appraisal and reward systems.
			Labor Unions	Students will be able to describe the role of labor unions, collective bargaining and grievance handling procedures.
			Staffing	Students will be able to understand job analysis, human resource planning, recruitment (including Internet recruiting), and selection, and explain the significance of major federal court decision affecting staffing.
	MGMT371	Operations and Business Analytics	1	1. Business Analytics: Perform a quantitative analysis of business operations.
			2	2. Operations Management: Describe & apply the principles of operations management for various activities of a firm's value chain.
			3	3. Supply Chain Management: Explain & apply the basics of supply chain management.
			4	4. Research Methodology: Conduct an empirical study using business analytics.
	MGMT380	Principles of Leadership	1	Students will complete the midterm which is on current theories of leadership with a score of 80 percent or higher
			2	2. Know how to apply leadership models to real-life situations through case analysis
			3	3. Be able to relate leadership theory to other academic subjects and current events
			4	4. Practice and develop leadership skills
			5	5. Know how to keep on learning about leadership
	MGMT451	Labor Law	1	1. define and explain the protected rights of employees as developed by the NLRB & the courts.
			2	2. define prohibited activities – called Unfair Labor Practices
			3	3. discuss representative elections procedures
			4	4. define and discuss the machinery for enforcing the Section 8 prescription and

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			4	preventing the prohibited acts.
	MGMT464	Organizational Behavior	Define Work Relationships	Assess relationships with individuals and be able to define various forms of work relationships
			Human Behavior and motivation defined	Evaluate individual work habits, perceptions, and motivations. 90 percent of students will complete the Drive: The Surprising Truth about what motivates us and will be able to complete the writing assignment associated with the book with a score of 90 percent or higher.
			Organizational Impact	To be able to identify habits, perceptions and motivational factors and their impact on organizations
			Organizational systems and effect on workers	Define organizational systems and its effect on worker performance
			Team Development	Describe group/team barriers, behaviors, and successful attributes
			Worker engagement strategies	Explain and demonstrate leadership and supervision strategies for worker engagement
	MGMT469	Collective Bargaining	Grievance and arbitration	Develop an understanding of contract administration including the grievance process, arbitration and means of solving conflict.
			Legal Framework	Explain the legal framework within which collective bargaining takes place.
			Mock Bargaining Simulation	Demonstrate an understanding of the collective bargaining process through participation in the mock bargaining simulation.
	MGMT476	Employee Training and Development	Delivering a training program	Students will learn how to: <ul style="list-style-type: none"> * begin a training program * gain leadership of the training group * give presentations and lead discussions * facilitate structured activities * conclude and evaluate the program * consider non-classroom forms of training delivery
			Developing training programs	Students will learn ways to: <ul style="list-style-type: none"> * assess the training group * develop training objectives * utilize a wide variety of training methods * plan, design, and sequence training activities * provide for back-on-the-job application * create an evaluation tool of the training and training objective
	MRKT281	Marketing Principles and Strategy	Training Need for knowledge of marketing as a functional area of business	To assess training needs and develop, present, and implement an active training program <ol style="list-style-type: none"> 1. Identify, describe, and evaluate the role of marketing in achieving corporate objectives and building a business; 2. Describe and evaluate real-life examples of both sound and faulty marketing efforts;

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	MRKT281	Marketing Principles and Strategy	Need for knowledge of marketing as a functional area of business	3. Assess various marketing problems and opportunities, analyzing these using the case method, and recommend feasible solutions; 4. Formulate marketing strategies, involving product, price, promotion, and distribution decisions; 5. Develop a basic marketing plan for an area non-profit cause.
	MRKT283	Principles of Selling	Improved ability to plan, execute, negotiate, and follow-up a strategic/consultative sales presentation	1. Practice interpersonal communication strategies, in selling role-plays which replicate selling in various business settings and contexts 2. Explain and evaluate the role and importance of selling in the marketing process 3. Develop complete pre-approach information and utilize it in designing an effective approach 4. Determine the wants and needs of customers through skilled questioning and listening 5. Anticipate and respond convincingly to customer objections 6. Apply closing techniques
			Knowledge-based competence	3 take home tests: short answer
			Reality Show Presentation	In pairs, each team was responsible for all aspects of designing and selling a reality show to a current media outlet (internet/cable based). This included idea, target market, budget, logo, time-frame, merchandising opportunities, cast, and prizes. This then was made as a power-point/video presentation to entire class
	MRKT379	Sports and Events Marketing	Knowledge of sports marketing and its comparison to product or service marketing	Tests
			Planning, organizing, executing, monitoring, and measuring effectiveness of a team-planned event	Experience in event planning
	MRKT381	Consumer Behavior	1	1. Understand how the behavioral sciences (psychology, sociology, and anthropology) are applied to the study of consumer behavior.
			2	2. Understand the internal dynamics of individuals as consumers: perception, learning, motivation, self-concept, personality and attitudes.
			3	3. Understand how individuals make consumer decisions and how the influence of other people and groups, circumstances and the environment impact the decision process.
			4	4. Identify various ways to segment a consumer market
			5	5. Understand how income and social class affect the consumer's decision process.
			6	6. Understand how membership in various sub-cultures influence consumer behavior.
			7	7. Understand how cultural differences impact consumer choices and how culture should dictate the choice of marketing strategies and communications.
	MRKT383	Digital Marketing	Email Marketing	Understand and implement best practices in marketing to a database of current and potential customers via email
			Online Advertising	Understand the various methods of online display advertising. Create an online display ad campaign and measure its ROAS (return on ad spend)

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			Search Engine Marketing	Understand the mechanics of paid search marketing. Create a search engine marketing campaign and evaluate its effectiveness. Recommend changes that will improve the campaign's conversion rates.
			Search Engine Optimization	Understand how search engines work.. Use this knowledge to make recommendations to a website on how it can improve its organic search rankings- in other words perform search engine optimization on a website.
			Social Media	Utilize knowledge of social media tactics to design an effective social media campaign
			Web Analytics	Determine the appropriate KPIs for any type of Website. Make appropriate recommendations to an eCommerce website based on the conversion funnel
	MRKT384	Social Media Marketing	Develop advanced skills	Develop advanced skills in composing social media strategies to provide solutions in reaching target markets through business/marketing communication
			Discover Innovative Uses	Discover innovative uses for social media in a variety of business areas and processes (e.g., new product development and service management)
			Distinguish social media and communications technology	Distinguish social media and how this media and communications technology influences the selling of goods and services
			Interrelate the connected consumer	Interrelate the "connected consumers" from psychological and sociological perspectives, to design marketing strategies
	MRKT385	Services Marketing	1	1. Be familiar with similarities and differences involved in marketing services and products.
			2	2. Be able to demonstrate an understanding of service marketing concepts, issues and models.
			3	3. Describe the ways services need to be marketed due to their intangible core.
			4	4. Describe the challenge of managing both service quality and service productivity.
			5	5. Identify methods to develop loyal customers in a service industry.
			6	6. Describe how service delivery systems are designed.
			7	7. Analyze pricing strategies in the marketing of services.
			8	8. Review the promotional strategies available to service businesses.
	MRKT386	Mobile Marketing	Application	Apply mobile strategies and assess the effectiveness of integrating mobile marketing in connecting with target markets.
			Challenges in Mobile Marketing	Classify and organize the challenges in mobile marketing, including the evolution of new technologies.
			Mobile Strateg	Define how mobile strategy shapes the marketing of products and services.
			Mobile Strategies	Compare mobile marketing strategies in relation to current legal and ethical standards of practice.
			Plan and construct mobile advertising	Plan and construct mobile advertising, mobile promotions and location-based marketing
			Techniques of Mobile Marketing	Analyze techniques of mobile marketing using strategies such as: target marketing and tracking ROI of customers for business, governmental, and not-for-profits in the global marketplace.

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	MRKT387	Advertising Theory and Practice	1	Utilize advertising to enhance brand equity in a very competitive environment
			2	Evaluate and recommend the use of specific creative and media for a variety of products and applications
			3	Develop initial creative concepts and direct them to final advertising campaigns
	MRKT388	Retail Management	1	a. define retailing, consider it from various perspectives, demonstrate its impact, and note its special characteristics;
			3	c. demonstrate understanding and application of strategic planning for retailers;
			4	d. evaluate the strengths and weaknesses of various retail strategies and tactics, and recommend feasible mix solutions for a retailing context;
			5	e. discuss ways in which retail strategy mixes are evolving;
			6	f. explain the steps leading to retail site selection;
			7	g. develop, implement and analyze merchandise plans;
			8	h. demonstrate understanding of the day-to-day functions and operations involved in management of a retail business.
	MRKT389	Entrepreneurship	1	1. Utilize opportunity thinking in an entrepreneurial setting.
			2	2. Prepare a business canvass.
			3	3. Prepare a power point deck to explain their idea to prospective investors.
			4	4. Develop basic financial statements for a startup company.
			5	5. Prepare a basic marketing plan for a startup company.
	MRKT480	Marketing Research	3	Linking the research implications of specific marketing decisions through the use of classroom and project examples.
			4	Define the research process by taking part in a group research project at every stage of development from problem definition through data collection, analysis and oral/written presentation
			Marketing Decision	Understand and use the marketing decision making process including information gathering and analysis along with the ethical implications of these decisions.
			Secondary Data	Be familiar with secondary data sources, collection of primary data, experimental design, measurement issues, data analysis and presentation.
	MRKT481	Marketing Management	Financial Aspects of Marketing Management	Improve critical thinking, and to develop analytical problem solving skills as they apply to strategy development.
			Marketing Management Skills	Practice and improve interpersonal, written and oral communication skills.
			Solving Complex Marketing Problems	Develop and improve the student's ability to recognize, understand and solve a range of diverse and complex marketing problems.
			Strategy Formulation and Implementation	Expose students to the process of strategy formulation and implementation.
TheCourses - Communication: COMM	COMM101	Intro to Speech Communication	General Education - Communication	Communicate competently in a variety of contexts

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Interpersonal Communication	Apply theory and research in interpersonal communication to interpret human interaction and develop strategies for increasing effectiveness in interpersonal communication.
			Listening	Identify different types of listening and the skills necessary for competent practice of each.
			Nonverbal Communication	Identify the various sub-elements of nonverbal communication and analyze their role in the overall communication process.
			Perception	Identify the forces shaping perception and explain its effect upon communication
			Public Communication Skills	Apply recognized standards of effectiveness to the construction, delivery, and critiquing of presentations and public communication.
			Small Group Communication	Identify the dynamics that have an impact on group effectiveness in accomplishing goals and explain strategies for improving group effectiveness.
			Verbal Communication	Identify specific communicative issues arising from the nature of language as a communicative tool.
	COMM201	Small Group Communication	Analyze	By the conclusion of the course the student will be able to analyze and comment upon group interaction in real time, in order to raise awareness of ongoing group dynamics.
			Design	By the conclusion of the course the student will be able to design group procedures and methods for the achievement of different purposes.
			Dysfunction	By the conclusion of the course students will be able to identify and explain the ways in which groups can be at risk for or of falling into dysfunctional decision-making dynamics such as group think.
			General Education - Communication	Communicate competently in a variety of contexts
			Performance	By the conclusion of the course students will be able to identify and explain the ways that groups can improve member performance, problem solving, and decision quality.
			Procedures	By the conclusion of the course students will be able to implement procedures and rules which maximize group effectiveness.
	COMM210	Business and Professional Speaking	Communication Principles	Explain the basic communication principles involved in various business and professional settings.
			Evaluation	Assess, critique, and evaluate business and professional presentations.
			Presentations	Develop and present presentations appropriate for business and professional contexts.
	COMM211	Advanced Public Speaking	Application	Apply theory and research to the analysis and critique of speech presentations.
			Construct	Construct and deliver presentations which meet recognized standards of effectiveness
			Develop competencies	Develop competencies regarding the use of reasoning and critical thinking
			Development	Develop strategies for increasing critical perspectives
			Evaluate	Find and critically evaluate supporting material.
			Identification	Use critical standards to identify strengths and weaknesses in examples of public communication
			Implementation	Identify and implement strategies for the use of audience analysis in various rhetorical contexts

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Implementation	
	COMM225	Interpersonal Communication	Analyzing	Produce, conduct, and analyze independent interpersonal interviews that are grounded in and analyzed with interpersonal theoretical concepts.
			Application	Critical application to realistic contexts of competent and incompetent interpersonal communication.
			General Education - Communication	Communicate competently in a variety of contexts
			Identification	Identify major concepts and theories that influence and explain interpersonal interactions.
			Summarization	Summarize the significant components of interpersonal communication models and theories
	COMM280	Understanding the Mass Media	Aesthetics	Students will demonstrate an appreciation and understanding of the various types of mass media.
			Definition and Identification	Students will be able to define and identify key terms, concepts, current issues and theories involved in the study of mass communication.
			Discribe and discuss	Students will apply their knowledge to describe and discuss the interconnections between media and culture.
			History	Students will demonstrate comprehension of the history of the various types of mass media and mass communication.
			Reflection and critical thinking	Through reflective and critical thinking, the student will be able to defend and explain a research project during a formal assessment and adjudication of its presentation.
			Write	Student will write in the appropriate style(s) for a particular mass media form.
	COMM302	Argumentation and Advocacy	Argumentative propositions	Demonstrate recognition of the nature of, and relationships among propositions/claims of fact, value, and policy.
			Argumentative speaking	Speak effectively as an advocate.
			Burdens and obligations	Demonstrate recognition of the types of responsibilities and burdens borne by different parties to arguments.
			Critical standards and application	Identify and appropriately apply critical standards for the evaluation of arguments and evidence.
			Logical outlining	Use the principles of logical outlining to construct briefs in support of cases both supporting and opposing a proposition of policy.
	COMM307	Classical/Contemporary Rhetoric	Nature and impact of classical rhetorical theory	Demonstrate command of the following classical rhetorical knowledge: The nature of rhetoric's emergence and development in Greece and Rome. The development and application of rhetorical theory through subsequent historical eras. The continued presence of classical theory's influence in contemporary practices.
			Rhetorical criticism	Demonstrate the following rhetorical criticism capabilities: Describe the differences between the rhetorical criticism tasks of description, interpretation, and evaluation. Produce written criticism which reflects competent execution of the three layers identified above.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Theory implications	Demonstrate the following skills in theory application: Display recognition of the explicit and implicit upshots of theories addressed by the course. Show recognition of the impact of multiple theories on specific works of rhetoric.
	COMM308	Communication Theory	Analyzing	Conduct in-depth analyses of communicatively significant events using multiple theoretical perspectives
			Application	Apply individual theories to examples of communication as a means of generating and conveying insight about the workings of communicative processes
			Identification	Identify and explain major issues in the nature and role of communication theory.
			Summarization	Summarize the key tenets of major theories of communication
	COMM320	Public Relations	Analyzing	Analyze public relations problems from the perspective of the discipline
			Describe roles	Describe the role of public relations in strategic organizational management
			Design	Design public relations campaigns
			Working command	Demonstrate working command of the theoretical foundations of public relations
			Writing skills	Develop and display writing skills appropriate to basic professional public relations activities
	COMM325	Organizational Communication	Explain the centrality of communication to the human activity of organizing.	Communicative processes are considered constitutive of the phenomena in which they take place. They do not simply reveal otherwise less visible aspects of the phenomena with which they are associated; they create those phenomena. Thus, human organizing is constituted by communicative processes, and the student is to learn the broad outlines of major theory and research supporting this conclusion.
	COMM399	Internship in Communication	Case Study	Identify and analyze cases in which multiple theories enrich understanding of communication studies-related work activities.
			Communication Theory and Research	Identify specific areas of communication theory and research which apply to the work setting for the internship.
			Future Application	Extrapolate specific theory and experience-generated practical upshots of the internship experience for future work activities.
			Interpersonal Communication	Apply the principles of interpersonal communication in collaborative production work.
			Oral Communication	Apply oral presentation techniques in various communication settings associated with the internship.
			Written Communication	Produce effective, professional written work associated with employment in the internship setting.
	COMM416	Communication in Leadership	Analysis	3. Analyze leadership situations based on group communication and prescribe solutions for the most appropriate and effective form of leadership for the group goals.
			Case Studies	2. Identify and apply leadership theory to communication contexts presented in case studies, film examples, and on-going class projects.
			Theory	1. Develop knowledge and understanding of leadership theory as it has evolved over the last 50+ years.
TheCourses - Criminal Justice: CJUS	CJUS101	Introduction to Criminal Justice	Elaborate the three main components of the CJ system	Elaborate the three main components of the criminal justice system: police, courts and corrections

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Examine the purposes of punishment	To examine the purposes and changing dynamics of punishment.
			Provide students opportunity to interact	Provide students the opportunities to critically interact with the material and to discuss controversial issues with peers in an environment conducive to learning.
			Provide students with background information	Provide students with background information that will dispel any misperceptions (perhaps based on longstanding myths) about America's criminal justice system.
			Understand the conception of justice	To understand the conception of justice and how this notion is applied in the U.S. criminal justice system, as well as identify potential reforms to address inadequacies and/or injustices.
			Understanding Role of Law Enforcement/Prosecutors in the Court	To provide students with an understanding of the role of law enforcement and prosecutors in the courts through a mock trial, and how justice is applied.
	CJUS102	Police Process	Civil Rights	Understand basic citizen civil rights.
			Functions of the Police	Understand the functions of the police investigation.
			Policing (patrol) works	Understand how policing (patrol) works within the Community Oriented Policing model.
			Policing Relationships	Understanding the relationship(s) between the public and the police.
			Understand Police Organizations	Students will be able to understand and explain the functions of modern police organizations.
			Understand recent police theory	Understand recent police theory and be able to compare and contrast to historical perspective.
			Understanding police function	Understand the function of the police.
	CJUS103	Introduction to Terrorism and Homeland Security	Discuss origins	Students will be able to discuss the causes for the origins and creation of the Department of Homeland Security and identify member agencies..
			Evaluate methodology	The students will be able to evaluate terrorist methodology and be able to develop and describe prevention action plans.
			Evaluate Terrorist hazards	Students will be able to analyze and evaluate scenario based learning situations to identify terrorist related hazards.
			Intelligence Information	Student will be able to distinguish between various types of intelligence information and be able to describe how it should be evaluated for potential value.
			Terorist activities	Students will be able to identify and describe signs of possible terrorist activities.
	CJUS110	Introduction to Corrections	Correctional process	Define the correctional process through the criminal justice system.
			Inmates' Rights	Demonstrate a basic understanding of inmate rights
			Probation/Parole	Describe the purpose and organization of probation and parole.
			Roles & Responsibilities	Describe the roles and responsibilities of correctional officers.
			Sentencing Alternatives	List sentencing alternatives.
	CJUS130	Client Relations in	Community Institution	Describe the functions of the community institution. Emphasis directed toward MDOC

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	CJUS130	Corrections	Community Institution Education/Training of Staff	training guidelines with specific training modules utilized. Explain why there is a need for additional education/training of staff. Emphasis directed toward MDOC training guidelines with specific training modules utilized.
			MDOC Client Relations in Corrections	A. Meaning and Function of CULTURE B. Impact and Meaning of DISCRIMINATION (Social and Psychological Impacts) C. Minorities in Michigan (Appalachian, Latino, Black, Native Americans and others...) D. Attitude Formation (self and peer perceptions, affirmative action, human relations)
	CJUS140	Criminological Theory and Correctional Client Growth	Collaborative Training Programs	Describe collaborative training programs and innovative techniques.
			Criminal Lifestyles	Describe criminal life styles.
			Environment	Describe the role environment as an influence on behavior.
			Environments	Identify the impact of early environments on behavior.
			Family	Describe the role the family has as an influence on behavior.
			Growing populations	Identify growing populations in the prison setting.
			Institutionalization	Identify the benefits of institutionalization and barriers to change.
			Medical Problems	Identify specific medical problems that relate to offenders.
			Modern Imprisonment	Describe the pains of modern imprisonment.
			Offender	Identify specific problems related to the offender.
			Psychological influences	Describe the psychological influences as it relates to behavior.
	CJUS197	Physical Fitness for Public Safety	Basics Behind Fitness	Understand the basics behind fitness and wellness as it relates to the law enforcement officer and firefighters.
			Behavior Change	Be exposed to reasons for behavioral change with fitness.
			Coronary	Have a basic knowledge of coronary risk factors.
			Exercise Benefits	Understand some of the benefits and guidelines for exercise.
			Lower Back Care	Understand some basic lower back care.
			Nutrition	Understand the basic knowledge of nutrition.
			Stress management	Understand the basics of stress management.
			Weight Control	Understand some basics of weight control.
	CJUS201	Firearms Training	Handling & Firing	Be able demonstrate the safe handling and proper firing of the 9mm Sig Sauer semi-automatic pistol.
			Safe Loading	Be able to demonstrate the safe loading, unloading and overall safe handling of firearms, as well as, being able to describe the components of a 9mm pistol and demonstrate the proper cleaning of a 9mm pistol.
			Safety Concerns	Be able to describe the safety concerns related to the handling and the operation of firearms.
	CJUS203	Cyberterrorism	Computer Crimes	Be able to distinguish and compare various types of computer crimes.
			Computer Transmitted Data	Be able to evaluate computer transmitted data and interpret data for possible connection to criminal activity.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Hardware	Be able to identify and describe hardware and software components commonly used in modern technology.
			Search Warrants	Be able to formulate electronic search warrants.
			Seizure	Be able to explain the process for seizing electronic devices for forensic examination.
	CJUS204	Domestic and International Terrorism	Terrorist Classifications	Be able to compare and contrast the major terrorist classifications.
			Terrorist Ideologies	Be able to compare and contrast terrorist ideologies across different terrorist organizations.
			Terrorist Methodology	Be able to describe multiple terrorist organizations methodologies.
			Terrorist Organizations	Be able to list modern terrorist organizations and distinguish between the organizations motivations.
	CJUS206	Law Enforcement/Loss Control Internship	Discretion	Student will be able to differentiate between ethical and non-ethical discretion in formulating their own core set of ethics and values for the profession.
			Emergency Situations	Appraise possible emergency situations and develop action plans to solve the problems.
			Professional Behavior	Students will be able to demonstrate proper professional behavior in the field of criminal justice.
			Reports	Students will be able to evaluate multiple types of written, oral, and electronic information and be able prepare well written detailed reports.
	CJUS212	Loss Control	Critical Thinking	Be able to critically analyze and evaluate situations of society
			External Threats	Be able to identify external threats and countermeasures.
			Foundations of Security and Loss Prevention	Be able to describe the foundations of Security and Loss Prevention.
			Internal threats	Be able to identify and describe internal threats and countermeasures.
			Laws of Loss Control	Be able to identify the specific laws that pertain to the field of Loss Control.
	CJUS220	Institutional Corrections	Career Paths	Identify future career paths in corrections.
			Contemporary Prisons	Describe contemporary prisons.
			Imprisonment	Describe the philosophy of imprisonment.
			Staff	Describe professional correctional staff.
	CJUS240	Community-Based Corrections	Biological, psychological theories	Discuss biological, psychological, social and environmental factors that can sabotage appropriate casework.
			Casework Theories	Discuss current community-based casework theories and applications.
			Effectiveness	Examine the effectiveness of community-based corrections.
			Implementing Programs	Develop a fundamental understanding of the challenges of implementing effective and efficient programs within the community, network with community agencies and individuals to create and achieve effective goals, appropriate follow-through and casework to effectively interact with offenders.
			P & P Officers	Discuss the role of parole and probation officers.
			Theory and Practice	Examine current theory and practice and develop an understanding of effective methods of community-based casework.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Youth & Adult	Examine the differences of youth and adult community-based corrections.
	CJUS243	Investigation	Investigative Process	Explain the investigative process through object based means as a justice finding tool(s).
			Personal Growth	Explain the process of Criminal Investigation as part of personal growth and maintenance of health.
			Socio-historical contexts.	Promote understanding of Criminal Investigations in socio-historical contexts (Social and Physical Evidence development over time).
			Understanding	Develop an advanced level of understanding of criminal investigation.
	CJUS250	Correctional Law	US Constitution	Understand the explain the investigative process in accordance with the U.S. Constitution.
			Application of Law	Learn to appreciate that the application of law to specific facts DO NOT always mandate or produce a clear cut answer (i.e., courts and/or agencies may decide certain cases either way for various reasons/factors).
			CO's	Be able to utilize the knowledge learned from this course to work as a corrections officer or to assist others employed in correctional systems.
			Constitutional Issues	Learn to appreciate that there are numerous constitutional issues that relate to inmates.
			Constitutional Provisions	Acquire a good understanding and knowledge of the constitutional provisions that apply to correctional law, particularly with regard to inmates.
			Correctional Systems	Acquire a basic understanding of federal, state and local correctional systems.
			Factual Situtation	Be able to analyze a factual situation involving a correctional issue (be it with an inmate, a correctional officer, management or other) to determine what law may apply and then apply the same to determine what the outcome might be in court or in an administrative agency hearing.
			Terminology	Be familiar with legal terminology regarding the area of correctional law.
			Tribal Court Systems	Acquire a basic understanding of the federal, state and tribal court systems.
			Understanding law	Acquire a good understanding of federal, state, tribal and local law (be it statutory, regulatory, case law or other) as it relates to corrections.
	CJUS302	Hate Crimes	Nature of Racism and Xenophobia	Students will be able to analyze and evaluate the nature of racism and xenophobia to understand benefits of diverse cultures.
			Restoraitive Justice	The students will be able to apply restorative justice models both theoretically and practically.
	CJUS303	Critical Infrastructure Protection	Facility Risk	Be able to analyze and evaluate a facility's risk.
			Hazards	Be able to compare modern hazards to current infrastructures.
			Identifying hazards	Be able to describe methods for identifying hazards and construct potential countermeasures to hazards.
			Risk Survey	Be able to create a security risk survey of an asset.
	CJUS306	Security Systems	Future Growth	Assess the directions of future growth so as to be ahead of the curve.
			Information Secuirty	Review information security and countermeasures.
			Inspect Strategies	Inspect strategies to deal with information security.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Interpret Laws	Examine and interpret the laws as they impact loss control.
			Learning Modules	Design and construct "scriptographic" and "Buck Savage" learning modules.
	CJUS313	Crisis Intervention and Deviant Behavior	WAECUP	Apply the WAECUP pardigm, security risk index and risk surveys.
			Crisis	Understanding Crisis Micro analysis and understanding of Crisis Situations Macro analysis of Crisis Situations Integrated analysis of crisis situations
			EDP's	Understanding EDP's.
			Fear	Understanding fear
			Healthy Living	Separating the incident from from your life (healthy living as a first responder).
			Responding to Crisis	Responding to a Crisis
			Typifications	Knowledge of given crisis typifications and death.
	CJUS319	Substantive Criminal Law	Court Systems	Have a basic understanding of the federal, state and tribal court systems.
			Criminal Defenses	List and describe criminal defenses (and any applicable elements or factors regarding same).
			Criminal Law	Utilize the knowledge learned from this course so as to assist one in the enforcement of criminal law(s).
			Elements	List and describe the elements of a given crime.
			Factual Situation	Analyze a factual situation involving a crime to determine what crimes and/or defenses may apply (and then apply the same to determine whether someone has or has not committed a crime).
			Legal Terminology	Be familiar with legal terminology regarding the area of criminal law.
	CJUS321	Ethical Issues in Public Safety	Ethical Decision Making	Be able to describe and demonstrate ethical decision making strategies.
			Ethical Dilemmas	Be able to distinguish various types of ethical dilemmas and be able to formulate ethical responses.
			Ethics, Moral and Values	Be able to compare and constrast ethics, morals and values.
			Moral/Ethical Codes	Be able to develop and apply a moral and ethical code for the profession.
	CJUS325	Homeland Security and Emergency Services	Constitutional Issues	Students will be able to analyze and evaluate the constitutional and legislative issues related to emergencies, as well as, the processes and tools of emergency management and terrorism responses.
			Emerg. Management	Students will be able to apply the principles and practices involved in emergency management and terrorism response to scenario based learning.
			Emerg. Response Report	Students will be able to create an emergency response plan and facilitate the plan in a table-top scenario to implement the plan.
			Mitigating Emergencies	Students will be able to synthesize the development of modern Emergency Management and Homeland Security, including national, state and local strategies in mitigating emergencies and combating terrorism.
	CJUS330	Correctional Casework	Assessment & Classification	Define the assessment and classification process in institutional corrections.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Parole Process	Define the parole process.
			Presentence Report	Define the elements of a presentence investigative report.
	CJUS341	Fire Cause and Arson Investigation	Collecting Fire Evidence	Student will be able to analyze and evaluate a fire scene for identification of possible signs of arson and how to record, collect and preserve arson/fire scene evidence.
			Fire Behavior	Students will be able to discuss basic fire behavior, recognize fire patterns and be able to draw conclusions based on those behaviors and patterns.
			Investigative Planning	Students will be able to describe the essentials of investigative planning and methodology.
			Origin of Fire	Students will be able to determine the origin and cause of vehicle and structural fires by using the scientific method of investigation to draw conclusions..
	CJUS345	Statistics and Design for Public Safety	Analyze Data	Analyze data sets provided (descriptive and inferential statistics).
			Differentiate statistics	Differentiate between descriptive and inferential statistics.
			Identify types of data	Identify the various types of data (level of measurement) and determine the appropriate statistics needed for analysis.
			Probability	Understand probability to the degree needed to discuss, describe and explain. Students should be able to do computations on probability and z-score problems and also relate the concept of probability to statistical significance.
			Research Reports	Critique research reports and identify strengths and limitations within the studies.
			SPSS	Use SPSS to analyze data.
			Statistical Tests	Use several specific statistical tests including mean, median, mode, range, standard deviation, correlation, chi square, t-tests, z-tests, ANOVA, regression, and variance.
	CJUS355	Juvenile Justice	Environment influences	Have a basic understanding of the environment influences on delinquency.
			Future Issues	Become aware of future issues and/or trends concerning the juvenile justice system.
			Juvenile Corrections	Obtain a working knowledge of juvenile justice corrections, including but not limited to probation, community treatment and institutionalization.
			Knowledge of Juvenile Delinquency	Obtain an overall working knowledge of juvenile delinquency and juvenile justice.
			Legal Terminology	Understand and be familiar with legal terminology regarding juvenile justice.
			Major Theories	Understand and be familiar with major theories and delinquency and their policy implications.
			Role of Police	Obtain a working knowledge of the role of police in juvenile justice, including but not limited to initial response, search and seizure, arrest, interrogation, investigation, court testimony, etc.
			Stages	Obtain a working knowledge of each stage of the juvenile justice process and procedural/evidentiary law applicable at each stage of the process.
			State/Tribal Court System	Have a basic understanding of the state and tribal court systems as they relate to juvenile justice.
	CJUS384	International and Comparative Criminal	Classification Strategies	Examine synthetic and authentic classification strategies.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	CJUS384	Justice Systems	Classification Strategies	Examine synthetic and authentic classification strategies.
			Demonstrate	Demonstrate all of the learning outcomes above.
			International Perspective	Differentiate the historical, political and descriptive approaches to an international perspective.
			Legal Traditions	Appraise the differences among the common civil, socialist and Islamic legal traditions.
			Preventative Strategies	Formulate preventative strategies to deal with NAFTA, EU, Pacific Rim, Islamic and third world countries as they impact our society and our theirs.
			Transnational Crime	Assess the strategies as to combat transnational crime by utilizing our system and interfacing with other systems.
	CJUS401	Senior Seminar	Conduct Research	Conduct research, which includes the design, collection and analysis of data.
			Critical Thinking	Demonstrate good critical thinking skills assessed through a rubric in the final paper.
			Evaluation	Complete a self and departmental evaluation.
			Present Orally	Present orally an original piece of research and field questions from colleagues and faculty members.
			Write	Write an original piece of research.
	CJUS402	Criminal Justice Internship	Analyze potential scenes	Analyze and evaluate potential scenes or situations prior to arrival.
			Create a paper	Create a well-written paper discussing the particular internship experience.
			Critical Situations	Describe critical situations and how these situations can be de-escalated.
	CJUS409	Procedural Criminal Law	Court Systems	Have a basic understanding of the federal, state, and tribal court systems, particularly with regard to criminal procedures within said court systems.
			Enforcement of Laws	Be able to utilize the knowledge learned from this course so as to assist one in the enforcement of criminal laws.
			Factual Situation	Be able to analyze a factual situation so as to determine what procedural laws (i.e., constitutional, statutory, case law, court rules or other legal authority) may apply and then apply the same to determine how such procedural aspects impact on a particular criminal case.
			Knowledge of Criminal Law	Obtain a working knowledge of substantive and procedural criminal law.
			Legal Terminology	Understand and be familiar with legal terminology regarding procedures within said court system.
			MCOLES Certification	Be prepared for MCOLES certification regarding relevant criminal procedural law.
			Stages of CJ Process	Obtain a working knowledge of each stage of the criminal justice process and procedural/evidentiary law applicable at each stage of the process.
	CJUS411	Police Operations	Application of Criminal Law	Students will be able to develop a practical understanding and application of criminal law as it pertains to police operations, including an understanding of the daily ethical and professional challenges a police officer confronts.
			Criminal Offenses	Students will be able to critique scenarios and develop logical arguments for the identification of the type of criminal offense.
			Domestic Assaults	Students will be able to evaluate possible domestic assaults and be able to demonstrate how

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Domestic Assaults	to investigate the criminal activity.
			Juvenile Offenders	Students will be able to explain the process of detaining juvenile offenders.
			Knowledge of Criminal Law	Students will be able to apply the concepts of both substantive and procedural criminal law.
			Search Warrants	Students will be able to formulate search warrants.
			Terminology	Students will be able to understand and apply the essential terminology and concepts used in criminal law.
	CJUS444	Criminalistics	Victimology	Students will be able to identify and describe victimology.
			Criminalistic Procedures	Appraise and compare different types of criminalistics procedures.
			Fields of Forensic Science	Compare and contrast the fields of forensic science.
			Illicit drugs	Be able to identify various types of illicit drugs
			Present Evidence	Be able to present evidence and documentation as prepared for a court of law.
			Simulated Crime Scene	Prepare and evaluate simulated crime scene documentation.
	CJUS484	Futures Research: Long-Range Planning for Criminal Justice	Computer Software	Examination of computer software to examine how CJ problems will be addressed in the future.
			Study of the Future	Understand why it is important for CJ practitioners to understand the study of the future and that in some respects, the future is now (or literally tomorrow).
			Understanding the Challenges	Understand the challenges that are predicted in the CJ areas of: Intoxicants, technology, weapons, surveillance/IT, cybercrime, government (federalization and militarization), COPPS and new management systems COMPSTAT, identifying the three types of change the system will undergo (students will be able to hypothesize what the future holds through analysis and synthesis of contemporary CJ technologies and issues).
	CJUS490	Independent Study for Criminal Justice	Identify current topics	Identify several current topics in criminal justice.
			Opinion Paper	Write an opinion paper with appropriate documentation to support their position.
			Opposing Issues	Describe opposing issues related to a specific topic.
			Research Project	Conduct an independent research project.
TheCourses - Deleted or Archived	EXER301	Athletic Training Clinical Experience I	Demonstrate emergency medical techniques	Demonstrate emergency medical techniques
			Demonstrate how to properly select and fit protective athletic equipment	Demonstrate how to properly select and fit protective athletic equipment
			Demonstrate the skills necessary to properly develop and maintain flexibility	Demonstrate the skills necessary to properly develop and maintain flexibility
			Demonstrate the skills necessary to teach proper	Demonstrate the skills necessary to teach proper strength training techniques

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			strength training techniques	Demonstrate the skills necessary to teach proper strength training techniques
			Describe the medical support available to LSSU	Describe the medical support available to LSSU
			Identify and display the Foundational Behaviors of Professional Practice in Athletic Training	Identify and display the Foundational Behaviors of Professional Practice in Athletic Training
			Perform and interpret anthropometric measurements and screening procedures	Perform and interpret anthropometric measurements and screening procedures
	EXER302	Athletic Training Clinical Experience II	Legalities of OTC meds used in lab	Discuss the legal ramifications of OTC medications utilized in an athletic training room.
			Medical assessment	Perform a general medical assessment to include history, core temperature, vital signs, abdominal palpation, and skills with general medical tools.
			Nutritional guidelines	Demonstrate knowledge of basic nutritional guidelines and eating disorders
			Physical performance measurements	Perform and interpret physical performance measurements of the upper and lower extremities.
			Rehabilitation techniques	Demonstrate advanced rehabilitation techniques.
			Use the Physicians Desk reference to obtain information of medications.	Use the Physicians Desk reference to obtain information of medications.
	EXER390	Recreation Leader Apprenticeship	Final report	Students will experience reflection, adaptation, and the value of a leader apprenticeship by preparing a final report on their experience and submitting it to their university supervisor with all completed requirements
			Organizational methods	Students will learn class/exercise/sport organizational methods through observation, planning, and implementing specific supervised tasks as deemed appropriate by the supervisory teacher/leader/coach.
			Planning, implementing, evaluation	Students will learn the importance of planning, implementing and evaluation by completing a minimum of two complete individual instructional sessions which include: developing a written lesson plan, implementing the lesson, and submitting a written self evaluation, and being evaluated by their supervisor
			Professionalism	Students will learn and apply professional dress, communication, and leadership throughout the scheduled experience.
	EXER446	Exercise Prescription and Testing for Special Populations	Activity programs	Develop strategies to promote appropriate activity programs for members of special populations
			Benefits and risks in exercise programs	Demonstrate an understanding of the benefits and risks of participation in exercise programs for members of special populations
			Client data	Gather appropriate subjective and objective data on clients with special health issues
			Components of exercise	Identify and define the fundamental components of an exercise prescription for developing

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			prescription	cardiorespiratory fitness, musculoskeletal flexibility, and muscular fitness
			Contraindications for testing and exercise	Understand contraindications for testing and exercise
			Exercise intervention	Identify specific exercise intervention strategies for individuals with unique health problems
			Health fitness appraisals	Perform health/fitness appraisals including screening and identification of the limitations, needs, and precautions for individuals with various medical conditions or diseases
			Pathophysiology of systems and diseases	Apply the pathophysiology of cardiovascular, pulmonary, metabolic, musculoskeletal, neuromuscular and immunological diseases as they relate to exercise science
			Physiological principles in exercise prescription	Design appropriate exercise prescriptions based on physiological principles for a variety of special populations
			Understand pathophysiology and risk factors of diseases.	Demonstrate an understanding of the pathophysiology and risk factors of coronary artery disease, diabetes, arthritis, obesity, hypertension, PAD, asthma and osteoporosis
			Understanding exercise prescription	Understand exercise prescriptions based on physiological principles for a variety of special populations
	EXER492	Internship	Effective communication	Be able to effectively communicate, both orally and written, with colleagues and patients/clients
			Exercise Science professional	Be able to assess personal strengths and weaknesses as an exercise science professional
			Exercise Science relation to internship	Appreciate the connections of the Exercise Science curriculum as it relates to the internship opportunity
			Policies and procedures	Exhibit a basic knowledge of policies and procedures involved in the day-to-day operations of the pertinent internship site
			Professional record keeping	Be able to keep professional records through daily documentation of work duties, including the proper use of SOAP notes when applicable
			Professional work ethics	Have an improved appreciation for /understanding of professional work ethics, policies and procedures and patient/client rights and confidentiality
			Role as ES professional	Exhibit an understanding and appreciation of the roles, duties and responsibilities of full-time exercise science professionals
	MATH108	Trigonometry and Vectors for Physics	Course Assessment Report	REPLACE THIS TEXT WITH THE COURSE STUDENT LEARNING OUTCOMES
	PNUR101	Introduction to Practical Nursing I	Apply Time Management	3. Have created and begun to follow a time management plan and apply time management techniques to his/her daily activities.
			Campus Resources and Services	1. Identify campus resources and services and have used and/or visited various campus resources and services.
			Clinical Permit	8. Provide proof of the School of Nursing clinical permit requirements
			Code of Ethics	13. Be knowledgeable of the nursing code of ethics.
			Health Care Team	11. Identify the roles of the various members of the health care team.
			History of Nursing	10. Discuss the history of practical nursing and nursing in general.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Learning and Study Strategies	4. Be knowledgeable of various learning and study strategies to improve upon academic success (i.e. note-taking, study skills, test preparation, and test-taking techniques).
			Philosophy and Conceptual Framework of PN Program	9. Discuss the philosophy and conceptual framework of the practical nursing programs.
			Rights and Responsibilities	12. Identify patient?s rights and the nurses? responsibilities in protecting those rights.
			Strengths and Limitations, Values and Beliefs	5. Develop an awareness of personal strengths and limitations, values and beliefs.
			Study Tech./Test Taking	7. Apply various note-taking, test preparation, test-taking, and study techniques to improve your academic success.
			Teaching/Learning Styles	6. Understand your individual learning styles and how to adjust for various teaching styles.
			Time Management	2. Be knowledgeable of time management strategies.
	RECSEXER450	Philosophy of Human Performance and Leisure	American foundation documents	4) To become familiar with American foundation documents and philosophies and determine how they impacted American philosophy and politics; Declaration of Independence Preamble of the American Constitution Thomas Jefferson Benjamin Franklin John Quincy Adams
			American/Western based philosophy	3) To become familiar with various philosophers which impacted American/Western based philosophy and politics; Descartes John Lock Rousseau
			Classic Greek foundations	2) To become familiar with the classical Greek foundation of philosophical thought; Plato/Socrates
			Eastern Philosophy	7) To become familiar with various world religions/Eastern Philosophies and affiliated "Truths"; Buddhism....Dali Lama Hinduism Taoism Islam
			Education philosophies	5) To become familiar with various education philosophies; Montessori John Dewey
			Personal philosophy	9) To identify and discuss some of our own philosophical beliefs and determine how they guide us personally and professionally
			Philosophies/daily life	8) To become familiar with how our philosophies impact our daily lives
			Sport and Recreation Philosophies	6) To become familiar with various sports/recreation philosophies; John Wooden Herb Brooks

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Sport and Recreation Philosophies	Josef Pieper Danial Dustin Rodrick Nash Aldo Leopold Kurt Hahn
			What is Philosophy?	1) To be able to answer the question; "What is philosophy?"
	RECSEXER481	Professional Development Seminar	Internship, graduate school and career search skills development	Students will learn and apply a variety of internship, graduate school and career search skills through a mandatory Career Services visit, presentations by former interns, and enhanced seminar discussion
			Interviewing skills	Students will understand and apply various interviewing skills (face to face, phone, skype, board) through discussion, mock interviews, and evaluate their current strengths and weaknesses.
			Professional portfolio	Students will submit an individual professional portfolio exemplifying their academic knowledge and practical applied skills that will assist them in securing a required internship and in career placement.
	SOWK338	Deviance	Article Analysis	Be able to explain deviance from at least three difference theoretical perspectives and recognize when contemporary articles employ those theories.
			Causes of and Responses to Deviance	Understand the causes of deviance in society and society's responses to deviant behavior.
			Constructed and Criminal Deviance	Understand and recognize the difference between constructed and criminal deviance.
			Deviant Lifestyles	Be able to recognize the various forms of deviance within various deviant lifestyles, both on and offline.
			Mental Disorders	Be familiar with various forms of mental disorders, their respective demographics, justifications and subcultures.
			Physical Deviance	Be familiar with various forms of physical deviance, their respective demographics, justifications and subcultures.
			Religious Deviance	Be familiar with various forms of religious deviance, their respective demographics, justifications and subcultures.
			Sexual Deviance	Be familiar with various forms of sexual deviance, their respective demographics, justifications and subcultures.
			Substance Abuse	Demonstrate familiarity with various forms of substance abuse, their respective demographics, justifications and subcultures.
			Theoretical Explanations	Be familiar with and be able to apply Strain, Conflict, Control, Labeling, and Feminist theoretical explanations to various deviant behaviors.
	THEA161	Theatre Practicum (DELETED)	Assist	Assist with the various aspects in the mounting of a production (its set(s), lighting and technical components).
			Create	Create an appropriate character for public performance via rehearsal techniques.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Performing	Perform basic skills required by a theatre technician during the running of a production
			Serve	Serve as a box office and public relations assistant for a production or event (s).
	THEA201	Acting II	Auditions	Demonstrate knowledge of effective audition techniques.
			Ensemble	Identify the skills needed and demonstrate the ability to communicate effectively and work cooperatively with an ensemble
			Essence	Understand and explain the essence of theatre: what theatre is, what its elements and conventions are, and what qualities are needed to make good theatre.
			Evaluation	Demonstrate the techniques of constructive evaluation of self and other in class and performances.
			Mental Skills	Mental Skills: develop ability to concentrate and maintain focus, further explore and develop imagination, creativity, sensory awareness, and spontaneity as they apply to professional auditions and stage work.
			Physical Skills	Physical Skills: develop physicality of characters during scene work that brings the text to life
			Showing Up	Demonstrate a basic commitment to theatre by being present on time, and giving full attention, energy and creative input at all class sessions.
			technique and terminology	Demonstrate an understanding of basic acting technique and terminology.
			Vocabulary	Understand and use a working theatrical vocabulary
			Vocal Skills	Vocal Skills: develop an effective stage and speaking voice by developing relaxation and breathing techniques, improving articulation and pronunciation habits, and developing resonance capabilities that are necessary for successful professional auditions and stage work
TheCourses - Education: CHLD, EDSE, EDUC, READ	CHLD101	Foundations of Early Childhood Education	Code of Conduct	Apply the NAEYC Code of Conduct to personal and professional life.
			Developmentally Appropriate Practice	Define and apply developmentally appropriate practice in early childhood settings.
			Influences on Development and Learning	Describe multiple influences of family, culture, and environment, and analyze the possible effects on development and learning.
			Standards	Identify ethical and professional early childhood standards.
	CHLD103	Learning Environments for the Young Child	development and learning theory	Use developmental and learning theory to identify appropriate learning environments.
			developmentally appropriate learning	Describe the multiple ways in which developmentally appropriate learning is facilitated by the environment and curriculum
			material and environmental design	Identify developmentally appropriate design and materials for eleven learning centers.
	CHLD150	Observation and Assessment	Anecdotal Notes	Write three anecdotal notes on one child in language and literacy, social-emotional and self-help domains
			Atypical Development	Recommend specialized services and interventions based on child developmental assessments
			Child Outcomes	Analyze and apply assessment data to plan appropriate learning activities for one child.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Developmental Progress	Use child assessment information to communicate child's developmental progress
			Learning Environments	Use information from child or program assessments to plan a learning environments
			Program Improvement	Use a variety of program evaluations for continuous improvement in program quality
			Systematic Observations and Assessment	Accurately assess the developmental levels of a four year old child using an ages and stages developmental questionnaire.
	CHLD210	Infants and Toddlers	Assessment	Conduct a developmental assessment on one infant or toddler in a field experience setting.
			Brain Research	Identify and discuss results of recent brain research related to growth and development of infants and toddlers
			Environments	Discuss characteristics of environments which are appropriate for promoting development for infants and toddlers
			Safe/Healthy Environment	Apply principles of safe and healthy routines and procedures in the course field experience
	CHLD225	Emergent Literacy	Influences on Learning	Discuss the multiple influences on development and learning including cultural and linguistic context, economic conditions of families, and the influence and impact of technology and the media.
			Language and Communication Development	Describe developmentally effective approaches that foster language and communication development, and promote literacy and cognitive development.
			Learning Environments and Curriculum	Develop learning environments and curriculum that link children's language, culture, and community to learning
	CHLD241	STEM Foundations	Connections	Connect the STEM areas to each other, and to language arts in lesson planning.
			Learning Opportunities	Use STEM content to create early childhood learning opportunities.
			STEM	Describe science, technology, math, engineering (STEM) in the early childhood education setting.
	CHLD242	Creativity and Humanities	Aesthetics	Create environments in which young child have an opportunity for aesthetic expression and appreciation through active learning in art and music.
			Arts Expression	Create environments in which young children have opportunities to explore open-ended art, music, drama and dance to express themselves.
			Arts Understanding	Create environments in which young children are provided varied opportunities to gain an understanding of and appreciation for: art, music, drama and dance.
			Culture	Create environments in which young children can explore culture, diversity, families and community through play.
			Genres	Compare and contrast eight genres of literature.
			Identity	Create environments in which young children have opportunities to foster positive identity and awareness of self and others.
			Social Studies	Create environments in which young children can actively construct social studies knowledge by interacting with the world around them.
			The World and Environment	Create environments in which young children learn about their world and how people take care of the environment.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	CHLD245	Early Childhood Curriculum	Anti-bias	Integrate anti-bias perspectives in developmentally appropriate practices that impact individual children's development and learning.
			Content	Integrate central concepts, inquiry tools and structures of each content area into the design of developmentally appropriate curriculum.
			Developmentally Appropriate Practices	Analyze the application of theory and research to the design of developmentally appropriate curriculum and learning environments.
			Learning Environments	Create learning environments that support young children's ability to learn and make meaning from their experiences through play, spontaneous activity, and guided investigations.
			Observation and Assessment	Apply observation and assessment data to planning, implementing and evaluating effective curriculum.
			Reflection	Reflect on impact of own actions on the learning of young learners.
	CHLD260	Practicum I	Environmental Influences	Identify characteristics of a healthy, respectful, challenging learning environment.
			Observation and Assessment	Apply child observation information to evaluate the environmental impact on development and social-emotional growth of children.
	CHLD270	Administration of Early Childhood Programs	code of ethics	Students will examine the NAEYC code of ethics and apply it to field experiences
			Fiscal and staff management	Student will understand a fiscal and marketing plan for a childcare agency.
			Organizational structures	Students will discuss the relationships between job descriptions, agency policies, procedures, program mission and the importance of the relationship.
			policies and procedures	Students will explain the difference between policies and procedures for an organization.
	CHLD310	Inclusion of Young Children with Special Needs in Early Childhood Settings	Developmentally Appropriate Practice	Define the role of developmentally appropriate practice as it applies to assessment of children with special needs
			Learning Experiences	Identify learning experiences that will create optimal learning opportunities for all children enrolled in an inclusion program.
			Legislation	Describe the federal legislation that mandates the inclusion of, and services for, special needs children in early childhood programs.
			Parent-Professional Relationships	Identify strategies that create effective parent-professional relationships.
			Preschool Characteristics	Define the characteristics of a high quality pre-school program, when one or more of the children have special needs in physical, cognitive, language, social or behavioral development.
	CHLD330	Philosophical Foundations of Early Childhood Education	Advocacy	Articulate a plan for advocacy for young children
			Design	Apply personal philosophy to the design of preschool, child care center, or other child-focused facility
			Personal Statement	Construct a personal statement of early childhood education philosophy.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Philosophical Foundations	Compare and contrast theoretical foundations of contemporary early childhood practices, including Reggio Emilia and Montessori
	CHLD350	Early Childhood Facilities Management	Management	Analyze implications of national, state, and local laws, policies and procedures for effective management of early childhood education programs
			Planning	Assess personal leadership style and management strengths, and develop plan for continued professional growth as an advocate for young children
			Standards	Evaluate effective early childhood learning environments using the Michigan Early Childhood Standards of Quality and make recommendations for improvement
	CHLD410	Practicum II	Assessment	Use assessment data to develop individualized learning outcomes.
			Classroom Management	Demonstrate a variety of strategies to manage child behavior and support learning.
			Content Knowledge	Use content knowledge to provide appropriate and challenging learning activities.
			Environment	Evaluate environment and materials to provide a supportive and challenging environment for culturally and developmentally diverse children.
			Planning	Plan a learning environment based on child development knowledge, NAEYC developmentally appropriate practice and Michigan Standards of Quality.
			Professional Relationships	Develop a positive professional relationship with staff, children and families.
			Reflection	Accept professional feedback, self-assess instructional effectiveness and respond accordingly.
			Relationships	Use positive relationships and interactions as a foundation for working with young children and staff.
	CHLD440	Family and Community Partnerships	Awareness	Demonstrate an awareness of and sensitivity to the needs of diverse children, families, schools, and communities
			Communication	Utilize a variety of methods to establish and maintain effective respectful, reciprocal communication with families.
			Family	Analyze family systems theory in relation to the home-school link and the multiple influences on young children's learning.
			IEP	Identify the teacher's role in advocating for families through the assessment, screening and referral process in collaboration with helping professionals to initiate and develop an IFSP and IEP according to state and federal policy.
			Policy	Discuss public policy issues, legal and ethical guidelines and professional standards identifying their impact on children and families.
			Reporting	Identify possible indicators of abuse and neglect and required procedures for reporting concerns to authorities as mandated by law
			Services	Assist families in seeking community assets and resources, including collaborative community services
	CHLD480	Directed Teaching: Seminar	Dispositions	Demonstrate professional dispositions necessary for effective teachers.
			Evaluation	Engage in meaningful self-evaluation and reflection with fellow student teachers on their professional practice.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Professional Development	Develop plans for pursuing certification, employment, and continued professional development, based on assessment of personal strengths and weaknesses.
			Settings	Analyze and reflect on a broad range of aspects related to the early childhood settings and functions.
	CHLD492	Directed Teaching: Early Childhood	Content Knowledge	Demonstrate content area knowledge in the design, implementation, and evaluation of experiences that result in developmental and learning outcomes for each child.
			Learning Environments	Apply knowledge and understanding of young children's typical and atypical developmental needs to create healthy, respectful, supportive, and challenging learning environments for each child.
			Observation and Assessment	Demonstrate knowledge of systematic observations, documentation, and assessment strategies through the effective use of these techniques to promote positive outcomes for each child.
			Partnerships	Value the important and complex characteristics of children's families and communities in their development of respectful, reciprocal relationships and partnerships.
	CHLD495	Senior Project in Early Childhood Education	Investigation of topic of interest	Investigate and conduct a critical and reflective review of research topic from multiple perspectives culminating in an oral presentation which is supported by content knowledge, pedagogy, and research evidence.
	EDSE301	Introduction to Special Education	Approaches	Discuss approaches to working with range of learner abilities
			Differentiation	Apply differentiation to planning
			Interventions	Compare and contrast intervention strategies in order to choose the most appropriate approach in a given situation
	EDSE302	Communication and Community	Area Resources	Identify and describe area support groups, parent groups and professional groups representing various disabilities while considering the socio-cultural, linguistic, and environmental factors influencing the student and the family
			IEP, IFSP	Complete an IEP, IFSP through effective communication in all areas of planning, organization, developing, scheduling, conducting, implementation and evaluation with all relevant parties including but not limited to parents (primary caregivers) and student.
	EDSE320	Introduction to Learning Disabilities	Interventions and Approaches	Compare and contrast treatment interventions and instructional approaches for students with learning disabilities
			Research	Apply research findings in class discussions and activities.
	EDSE401	Issues and Trends Impacting Learning Disabilities & Special Education	Equity and Social Justice	Discuss the relationship to equity and social justice in relation to services for the people who are diverse (disabled with consideration of race, gender, orientation, class, religion, socio-cultural and language)
			Research	Discuss and debate the implications of research for practical application and as support for subsequent investigation related to planning, IFSP, IEP, 504 Plans
	EDSE403	Assessment and	Accommodations	Develop accommodations and modifications for classroom setting and curriculum based on

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	EDSE403	Diagnosis	Accommodations	assessment results and student's need including preschool (milestones,) transition, adaptation (strategic performance) and school to employment transition.
	EDSE404	Instruction and Technology: Preschool to Adult	Lesson Plans	Develop, present and critique lesson plans that demonstrate adaptation of core curriculum areas (math, reading, language arts, and social studies, science, communication (expressive/receptive) for students with a learning disability.
	EDSE480	Student Teaching Seminar: Special Education	Professional Plans	Develop plans for pursuing certification, employment, and professional development.
	EDSE492	Internship/Supervised Student Teaching: Learning Disabilities	IEPs, IFSPs, Transition Plans	Develop, implement, and amend Individualized Education Programs, Individualized Family Service Plans, and transition plans for students with learning disabilities.
	EDUC250	Student Diversity and Schools	Analyze	Analyze the components of a well-organized, effective lesson
			Demographics	Discuss the impact of changing demographics, technology and globalization on education and on learning.
			Dispositions	Demonstrate professional dispositions.
			Education Systems	Compare and contrast educational systems.
			Frameworks	Discuss legal and ethical frameworks for professional educators
			General Education - Diversity	View the world from cultural perspectives other than their own
			History	Identify key developments in American public education
			Philosophy	State personal educational philosophy.
			Professionalism	Describe teaching as a profession
			Reflection	Reflect on own performance
			Standards	Discuss standards-based education
	EDUC301	Educational Psychology and Learning Theory	Application to Classrooms	Apply theories to analyzing classroom experiences
			Brain	Describe cognitive processes and how the brain develops
			Brain-based Education	Discuss brain-based learning
			Learning Styles	Describe learning styles theories and the impact on different learning experiences
			Technology	Discuss impact of technology on brain development
			Theories	Analyze educational psychology theories in the context of the experience of the digital generation
			Theorists	Compare and contrast learning theorists
	EDUC330	Reading in the Elementary Classroom	Reading Theories	Compare and contrast major theories of reading utilizing relevant research
			Research	Critically read and synthesize professional journals and publications on reading.
			Teaching Strategies	Use appropriate materials and apply a variety of research-proven approaches to teaching the main components of reading to students, including English language learners.

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	EDUC350	Integrating Technology into 21st Century Learning Environments	Ed Tech Philosophy	At the conclusion of EDUC350, a student will be able to discuss and defend their personal educational technology philosophy.
			Lesson Planning	Create standards based lesson plans with aligned assessments and aligned activities.
			Tech Integration	Integrate a variety of technology tools into lessons.
	EDUC410	Corrective Reading in the Classroom	Assessment	Assess students' reading strengths and weaknesses.
			Evaluation of Reading Proficiency	Identify and define tests and evaluations used in assessing students' reading strengths and weaknesses
			Identification	Identify K - 8 students who may be having reading difficulties.
			Instructional Materials	Evaluate instructional materials.
			Instructional Strategies	Apply instructional strategies to teaching the core areas of reading development and plan corrective and remedial reading instruction based on the reading assessment results.
			Reading Difficulties	Explain factors associated with reading difficulties.
	EDUC411	Elementary Language Arts and Literacy Skills	Cultural/Verbal/Nonverbal	Analyze the social, cultural, and dynamic nature of verbal language and nonverbal communication in elementary classroom settings.
			Evaluation	Apply critical standards in evaluation of texts and mass media.
			Integration	Discuss the integrated nature of the English language arts.
			Media Production	Produce instructional and informational materials utilizing a variety of media formats.
			Rhetoric	Apply rhetorical techniques and devices in responding to, creating, and revising texts in a variety of genres.
			Selecting Literature	Select developmentally appropriate, high-quality contemporary and classical literature for children and young adolescents.
			Standards, Instruction, Assessment	Apply curriculum standards in selecting instruction and assessment strategies for English Language Arts and literacy skills, differentiating instruction and assessment for diverse learners.
	EDUC415	General Instructional Methods	Planning	Create planning, instructional, and assessment documents that will logically prompt elementary or secondary student content learning.
			Professional Dispositions	Demonstrate professional dispositions in the field (K-12 classroom).
			Reflection	Respond to reflection and feedback about teaching performance for continuous improvement.
			Strategies	Apply appropriate instructional strategies to engage elementary or secondary students in content learning.
			Technology	Intentionally infuse technological tools into instruction and assessment to enhance differentiation, collaboration, and student achievement.
	EDUC420	Math Methods for Elementary Teachers	Concepts	Identify mathematics concepts and processes that elementary students find difficult and lesson activities designed to facilitate learning.

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			Equity	Discuss how the statement "all students can learn mathematics" will impact teaching mathematics.
			Problem Solving	Develop problem-based lessons for learning mathematics including outcomes, assessment, and differentiation of instructional strategies.
			Research	Discuss research-based best practices for effective mathematics teaching.
			Standards	Choose appropriate Michigan K-12 Standards for Mathematics for lesson and unit plans and determine appropriate outcomes and activities for the standard.
			Technology	Plan mathematics tasks that support a technology rich environment, determining appropriate use of technology including online resources, calculators and other tools.
	EDUC421	Science Methods for Elementary Teachers	Laboratory Activiites	Students will demonstrate the ability to design and manage science labs and activities including correct use of grade appropriate lab equipment and enforcement of lab safety.
			Standards and Methods	Teacher candidates will reflect upon their use of curriculum standards, instructional methods, and instructional strategies in science education for student learning.
			Teaching Skills	Students will develop science teaching skills through teaching experiences both in class and out in local schools.
			Technology	Students will explore various forms of technology integration into science education.
	EDUC422	Social Studies Methods for Elementary Teachers	Planning	Develop lesson and unit plans specific to history, economics, geography, and civics disciplines and standards.
			Sources	Identify resources for primary and secondary sources
			Standards	Develop lesson and unit plans with integrated outcomes based on the Michigan K-12 Standards for English Language Arts.
			Technology	Evaluate various forms of technology integration into social studies education.
	EDUC423	Arts Methods for Classroom Teachers	Artistic Process	Describe the steps of the artistic process and apply them to an activity for an elementary classroom.
			Communicate Through The Arts	Communicate effectively about and through the arts.
			Content Lessons	Design developmentally appropriate core content lessons with dance, music, theater, and visual arts components.
			Functions, Elements, Principles, Styles	Apply the functions, elements, principles, and styles of the arts in the critique, creation and/or performance of a piece of art.
	EDUC424	Health/Physical Methods for Classroom Teachers	Health/Physical Education	Analyze the similarities and differences between health and physical education.
			Integration	Integrate health and physical education into core content teaching strategies in elementary classrooms.
			Lesson Planning	Create individual and unit lesson plans for health and physical education with a focus on life-long health.

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	EDUC440	Reading in the Content Area	Assessment	Apply results from both formal and informal assessments to instructional planning.
			Characteristics	Describe characteristics of proficient readers
			Definition	Define the reading process;
			Research	Apply research reported in reading-related journals and publications in developing plans for reading strategies in the content areas.
			Strategies	Utilize a variety of instructional strategies and approaches to enhance students' comprehension in the content area.
			Theories	Discuss major theories of reading;
	EDUC441	Language Arts Methods for Secondary Teachers	Reflection	Reflect on effectiveness of strategies and activities in terms of impact on student learning
			Standards/benchmarks	Utilize appropriate national, state, and local standards and expectations in developing short- and long-term instructional plans (ELA)
	EDUC442	Math Methods for Secondary Teachers	Content	Analyze mathematics content to determine appropriate problems for lessons that connect the Michigan K-12 Standards for Mathematics with student's grade levels and abilities.
			Diversity	Develop and use knowledge of student diversity to affirm and support full participation and continued study of mathematics by all students.
			Planning	Develop effective lesson plans that incorporate instructional strategies based on current research, and formative and summative assessments.
			Reflection	Systematically reflect to organize and improve teaching and develop effective relationships.
			Technology	Incorporate appropriate technology to support the learning of mathematics, including computers and computer software, calculators, interactive television, distance learning, electronic information resources, and a variety of relevant multimedia.
	EDUC443	Science Methods for Secondary Teachers	Curriculum, Instruction, Assessment	Design and implement effective lesson planning, teaching, and assessing of science based on the current science standards.
			Educational Technology	Use educational technology in science teaching and be able to explain and defend the use of technology tools as best practice.
			Inquiry Learning	Explain inquiry learning in science and design an exemplary unit to teach the scientific method with an inquiry focus.
			Instructional Strategies	Design lessons that include specific strategies for vocabulary instruction, concept instruction, laboratory instruction, assessment and use of science gizmos.
			Lab Management	Design and manage science labs and activities including correct use of grade appropriate lab equipment and enforcement of lab safety.
			Science Standards	Align student learning outcomes and lesson activities to current secondary science standards.
			Teaching Skills Development	Develop science teaching skills through teaching experiences both in class and out in local

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Teaching Skills Development	schools. Reflect upon the successes and potential improvements for each lesson delivered.
	EDUC460	Classroom Management	Classroom Management Plan	Develop personal classroom management plan that reflects personal educational philosophy, current theorists, and local/state/national initiatives.
			Diversity	Analyze the impact of social, cultural, and economic factors on student behavior, and adaptations required in working with individual students based on such differences.
			Requirements	Evaluate current local, state, and national initiatives and legal requirements related to behavior and classroom management.
			Theories	Compare and contrast approaches to behavior and classroom management across the spectrum from teacher control to student self-control, based on an understanding of representative theorists.
	EDUC480	Directed Teaching Seminar	Dispositions	Demonstrate professional dispositions.
			Professional Plans	Develop plans for pursuing certification, employment, and professional development.
			Reflection	Engage in meaningful self-evaluation and reflection with fellow student teachers on their professional practice.
			School Culture and Operation	Analyze and reflect on a broad range of aspects related to school culture and school operations
	EDUC492	Directed Teaching	Content Knowledge	Candidates analyze and synthesize ideas, information, and data to make applications of subject knowledge in inquiry, problem solving, and critical thinking.
			Differentiation	Candidates value the uniqueness of each individual through their commitment to learners and learner-centered processes.
			Dispositions	Candidates demonstrate professional dispositions throughout coursework, field experience and student teaching.
			Equity	Candidates demonstrate commitment to equity and democracy in their active participation in learning communities at the university, school and community levels.
			Pedagogical Content Knowledge	Candidates demonstrate deep subject knowledge through their ability to engage learners in concepts and problem solving from multiple perspectives.
			Reflection and Improvement	Candidates respond to the results of self-evaluation and reflection for continued improvement in their implementation of research-based pedagogical practices that result in student learning.
			Technology Integration	Candidates intentionally infuse technological tools into curriculum, instruction, and assessment to enhance differentiation, collaboration, and student achievement.
	EDUC624	Reading: Research and Methodologies	Assessment	Assess students' reading abilities
			Planning	Adopt differentiated, research-proven instructional strategies and appropriate materials to respond to the literacy needs of students, including English learners, in the core areas of reading: phonemic awareness, phonics, fluency, vocabulary, and comprehension across different content areas.
			Research	Analyze and apply existing research findings to development of reading instruction
			Theories	Discuss major theories of reading

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	EDUC635	Applying: [specify course title by section]	Research Project	The student will have an expanded knowledge beyond the content knowledge gained from his or her current VESI course; do research on a particular topic of interest; and/or develop a research-based project(s) or teaching units, and implement the project/teaching units in a school setting.
	READ091	Preparation for College Reading	Applying	Apply appropriate reading strategies and study skills to read effectively, efficiently, and critically.
			Reading Strategies	Describe research-proven reading strategies and study skills needed for college success.
			Vocabulary Strategies	Use effective methods to expand vocabulary.
TheCourses - Engineering & Technology: EGEE, EGEM, EGET, EGME, EGMF, EGMT, EGNR, EGRS	EGEE125	Digital Fundamentals	Course Description	A study of numbering systems and binary codes, combinational and sequential logic (with an emphasis on contemporary programmable logic concepts), and microcomputer memory devices.
	EGEE210	Circuit Analysis	Circuit Theorems	Develop and solve node voltage and mesh loop equations for arbitrary DC and AC circuits containing resistors, capacitors, inductors, independent and dependent sources.
			Course Description	This course is an introduction to the analysis of linear circuits. Topics include: basic circuit elements and their terminal relations, Kirchhoff's laws, nodal analysis, mesh analysis, superposition theorem, Thevenin and Norton equivalent circuits, DC transient analysis of RC and RL circuits, phasors, sinusoidal steady-state response of RLC circuits and single-phase and three-phase AC power analysis.
			Electrical Principles	Describe and apply basic electrical terms and principles, such as voltage, power, node, etc. as well as Ohm's, Kirchoff's and conservation laws.
			Laboratory	Construct and test simple electrical circuits using various laboratory instruments, including oscilloscopes, power supplies, multimeters, and function generators. Perform DC, sinusoidal steady-state and transient analysis of electrical circuits using circuit-simulation/analysis software.
			Op-Amps	Calculate voltage, current, and power in circuits containing ideal op-amps in basic inverting, noninverting, summing and differencing configurations.
			Thevenin and Norton	Formulate Thevenin and Norton equivalent circuits for complex networks including resistors, capacitors, inductors, independent and dependent sources.
			Transformers	Compute the voltage, current and power values for both sides of simple circuits containing ideal transformers.
			Transient Response	Determine the time constraints, initial and final values, and transient responses for first-order RC and RL circuits driven with step and pulse sources.
			EGEE250	Micro-Controller Fundamentals
EGEE280	Introduction to Signal Processing	Course Description	The course introduces the mathematical techniques used to describe continuous-time signals and systems in the time and frequency domains and discrete-time signals and systems in the time domain. Topics include complex numbers, amplitude and time shifting and scaling, sampling, convolution, Fourier series, Fourier transform, frequency response, and difference	

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	EGEE280	Introduction to Signal Processing	Course Description	equations.
	EGEE310	Network Analysis	Course Description	A continuation of EGEE-210 with an emphasis on the systems approach to circuit analysis and design. Topics include the Laplace transform, transfer functions, frequency response, Fourier series, filter design, and op-amps.
	EGEE320	Digital Design	Course Description	A study of logical and electronic circuit design techniques including combinational and sequential circuits, programmable logic devices, MSI, and LSI design. Synchronous state machine design using computer-based tools is emphasized for control applications.
	EGEE330	Electro-Mechanical Systems	Course Description	A study of three-phase circuits, electro-mechanical energy conversion, transformers, AC and DC machines, motor drives and controlled converters.
	EGEE345	Fundamentals of Engineering Electromagnetics	Course Description	This course provides an in-depth knowledge of the fundamentals of electromagnetic theory. Topics include vector analysis, electrostatic fields, magnetostatic fields, Maxwell's equations, and an introduction to the concepts of wave propagation and transmission lines.
	EGEE355	Microcontroller Systems	Course Description	A study of microcontroller systems design based on the MC9S12. Assembly and C language programming are used for program development in the design of embedded systems. Interfacing techniques, real-time control, and microcontroller emulator use are emphasized.
	EGEE370	Electronic Devices	Course Description	This provides an in-depth study of basic electronic devices. Topics include diodes, MOS field effect transistors, bipolar junction transistors as well as amplifier concepts such as gain, bandwidth, biasing and frequency response. Diode rectifiers, common amplifier configurations, digital CMOS logic circuits, latches, flip-flops and RAM cells are studied as applications of electronic devices.
	EGEE425	Digital Signal Processing	Course Description	This course is a study of the application of digital signal processing technology. The course emphasizes analysis of discrete systems in time domain, z-transform, discrete Fourier transforms, design of digital filters, and sampling theory. Additional emphasis is placed on the use of computer simulation techniques for digital signal processing and various potential applications.
	EGEE475	Power Electronics	Course Description	This course provides an introduction to electrical power processing. The general topics include various electronic power switching circuits specifically AC-DC rectifying circuits, DC-DC converters and DC-AC inverters. Additional topics include applications of power switching circuits as well as characteristics of power semiconductor devices.
	EGEM220	Statics	Course Description	Engineering Statics is the study of forces and moments. Specifically, the forces and moments required to keep points and rigid objects in equilibrium are analyzed. Rigid objects considered include trusses, frames, and machines. Internal forces for rigid objects are also studied. Vectors and vector mechanics are used extensively in the analysis. The principles of Statics provide a foundation for the courses in the mechanical engineering curriculum.

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	EGEM220	Statics	Course Description	Knowledge of these fundamental principles is also necessary for all engineering disciplines.
	EGEM320	Dynamics	Course Description	Dynamics builds on the ability to analyze forces and moments that was learned in Statics (EGEM220). In Dynamics, applied forces and moments result in motion to both dimensionless particles and rigid objects. Four major topics are covered in this class: Kinematics; Newton's Second Law; Work/Energy; and Impulse/Momentum. For each topic, the theory is derived for both particles and rigid bodies, and the appropriate application of each method is presented. Vectors and vector mechanics are used extensively in this course. Use of commercial software packages is required.
	EGET110	Applied Electricity	Course Description	The student will be able to: 1. Understand basic electrical relationships between voltage, current, resistance, and power for basic signal types and basic circuits. 2. Evaluate the input/output relationships of DC and AC electric circuits. 3. Set up experiments and analyze bread boarded circuits using standard lab equipment.
	EGET175	Applied Electronics	Course Description	An introduction to the operation of basic electronic devices including diodes, transistors and operational amplifiers. Topics include: power supplies, amplifiers, frequency response and filter circuits. Laboratory exercises will reinforce the lecture material and introduce computer circuit analysis.
	EGET310	Electronic Manufacturing Processes	Course Description	This course will cover traditional and modern techniques for the design, fabrication, and testing of electronic circuit boards. Traditional techniques include wire cutting and stripping and manual and wave soldering. Modern techniques include the routing of multilayer surface mount boards, solder paste stenciling and dispensing, pick-an-place assembly and programming, reflow oven soldering, and rework techniques.
	EGME110	Manufacturing Processes	Course Description	This course introduces students to basic manufacturing processes. Both theory and applications of various processes are covered in lecture and laboratory. Topics include: Metal forming processes, Plastic forming processes, Welding and related processes, Measuring instruments, Machining processes, Shop Safety
	EGME141	Solid Modeling	Course Description	This course covers an introduction to creating 3D computer models of mechanical parts and the creation of 2D drawings, with proper dimensioning, for the models. The course utilizes 3D solid modeling software to cover the above content. The current software is CREO/Pro Engineer Wildfire 5.0
	EGME225	Mechanics of Materials I	Course Description	This course is part of a series of courses, through which the student learns how to carry out the complete process of machine or structural design. This course studies the mechanics of the interaction between the forces and the deflections experienced by objects. The forces and moments produce deflection, strain, and subsequent stress in the objects. Stresses experienced by an object are compared to the strength and properties of the object's material. Typical objects are beams, shafts, and parts of mechanisms and structures. The concepts studied in this course provide the foundation for subsequent courses in design and finite element analysis, which deal with deflection, stress, and failure theory of components.
	EGME240	Assembly Modeling and	Course Description	The course is a continuation of EGME141. Parametric modeling and design of assemblies by

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	EGME240	GD&T	Course Description	the use of solid models. Emphasis will be placed on animation of assemblies to display the functionality of assemblies.
	EGME275	Engineering Materials	Course Description	A study of physical structure of engineering materials, including metals, ceramics, polymers, and composites, as well as their properties and applications. Failure modes of materials, such as corrosion, fatigue, plastic deformation, and brittle failure, are also covered. For metal alloys, there is an emphasis on the interpretation of phase diagrams and time-temperature-transformation diagrams.
	EGME276	Strength of Materials Lab	Course Description	Laboratory experiments covering topics in mechanics of materials and engineering materials. Theory from mechanics of materials and engineering materials will be covered through hands-on experiments.
	EGME310	Vehicle Development & Testing	Course Description	A systematic overview of topics within the areas of automotive vehicle dynamics, component design, and testing. An introduction to gross vehicle dynamics is followed by a detailed study of specific vehicle subsystems, including both their design and their role in the overall vehicle behavior. Dynamic behaviors covered include acceleration, braking, cornering, ride, and load transfer. Subsystems considered include the brakes, steering system, suspension, tires, and drive train. Vehicle testing and benchmarking is also covered. Laboratory content includes an introduction to a commercial vehicle dynamics software package.
	EGME312	CAM with CNC Applications	Course Description	Writing CNC programs in machine codes, and the setup and trial runs to produce parts from these programs. Computer software interfacing between programming languages and various industrial machines will be stressed. Computer aided manufacturing (CAM) topics and applications of CAM software will be covered.
	EGME337	Thermodynamics	Course Description	The overall goal for this course is to teach students how to use the principles of thermodynamics to solve a wide variety of engineering problems, particularly with regard to thermal and energy conversion systems. Lectures, class exercises, and problem solution presentations are geared toward accomplishing this goal.
	EGME338	Fluid Mechanics	Course Description	A study of theory and applications of fluid statics and fluid dynamics. Topics covered include: Hydrostatic forces, buoyancy forces, stability, Bernoulli equations, dimensional analysis, flow in pipes, integral analysis of fluids, and introduction to pumps.
	EGME350	Mechanical Engineering Design	Course Description	Design and selection of machine components and power transmission units. Selected topics in load, stress, and deflection analysis in more depth than EGME225, notably (but not exclusively) torsion of thin-walled sections, thick-walled pressure vessels, interference fits, buckling problems by eigenvalue analysis, and Castigliano's theory. Deterministic and stochastic theories of static failure, dynamic loading, and fatigue. Performance analyses of machine components, such as shafts, bearings, gears, worms, fasteners, and belt/chain drives. Laboratory covers finite element analysis using commercial software, and involves a major group design project.
	EGME415	Vehicle Dynamics	Course Description	A study of vehicle dynamics, treating selected topics in automobile dynamics with more theoretical depth than EGME 310, but also surveying heavy trucks, tracked and off-road vehicles (including terrain interaction), railway vehicles, and water-borne vessels. Dynamic modeling, as well as a thorough understanding of underlying physical phenomena, are emphasized.
	EGME425	Vibrations and Noise Control	Course Description	An introductory course to vibrations analysis, noise control, and acoustics. The vibrations portion includes the theory of discrete and continuous vibrating systems, and such

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	EGME425	Vibrations and Noise Control	Course Description	applications as vibration mitigation, machinery vibrations, and rotor dynamics. The noise control / acoustics portion includes the theory of airborne sound, speed of sound, sound fields in bounded spaces, an overview of human hearing, and application to noise mitigation.
	EGME431	Heat Transfer	Course Description	Theory and applications of heat transfer. Steady-state and transient conduction, forced convection, natural convection, radiation. Analysis of heat exchangers, boiling and condensation, introduction to numerical methods in heat transfer.
	EGME432	Thermal and Fluids Lab	Course Description	Practical applications of thermodynamics, fluid mechanics, and heat transfer. Hands-on training in the operation of thermodynamic components, power generation systems, and fluid mechanical devices. Experimentation in heat transfer. Includes a major project in the area of power generation and dissipation or experimental fluid mechanics.
	EGME442	Finite Element Analysis	Course Description	The finite element method is a numerical method for solving problems which involve complicated geometries, loadings, and material properties. This course provides a simple, basic approach to the finite element analysis, where the general principles are presented, followed by practical applications and computer implementations. Topics include the stiffness method, Galerkin and potential energy approach. Equations are derived for the truss, beam, frames, axisymmetric solids and constant-strain triangular elements. Laboratory assignments are designed to demonstrate and emphasize the use of modern problem solving software along with good technical report writing.
	EGMF110	EGMF110 Introduction to Machining I	Course Description	Students will receive instructions on shop safety, blueprint reading, measuring instruments, layout principles, and basic bench work. They will also receive instructions on grinding, lathes, drill presses, saws, and basic milling. Some metallurgical concepts are introduced. The course will make use of the Machinery's Handbook and apply the principles, concepts, and data in the handbook to industrially related projects. Information from the handbook will be used to ensure proper set-up and operation of the machinery. Students will spend several hours each week setting up, working, and familiarizing themselves with the machines.
	EGMF130	EGMF130 Introduction to Machining II	Course Description	This course builds up upon the material presented in EGMF110. Students will receive additional instruction on shop safety and measuring techniques relative to the machinery introduced in this course. Additional topics on vertical and horizontal milling machines, surface grinders, metallurgy, and blueprint reading are covered. The Machinery's Handbook will continue to be used in conjunction with the machines utilized in this course. Students will spend several hours each week setting up, working, and familiarizing themselves with the machines. Prerequisite: EGMF110.
	EGMF210	EGMF210 Advanced Machining	Course Description	In this course, students will write CNC programs in machine codes, and then setup and run CNC machines to produce parts from these programs. Computer software interfacing between programming languages and various industrial machines will be stressed. Computer-aided manufacturing (CAM) topics and applications of CAM software will also be covered. Students will be able to describe the sequence and operations for a part program, determine the tools required for machining, calculate speeds and feeds, set-up tooling on CNC machines, develop CNC programs using standardized formats, and use CAM software to produce three dimensional parts.
	EGMT142	EGMT142 An Overview of Solid Modeling Techniques	Course Description	This course will cover an application of solid modeling software techniques to create parts and assemblies. Topics covered include creating sketches; creating parts with extrude, revolve, blend, and sweep; creating part features with round, chamfer, pattern, mirror; use of the part history tree; dimensioning of parts; building of assemblies; creation of parts from

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	EGMT142	EGMT142 An Overview of Solid Modeling Techniques	Course Description	2D drawings; creating 2D drawings from solid models of parts and assemblies; and an introduction to animation of assemblies.
	EGMT225	EGMT225 Statics and Strength of Materials I	Course Description	Fundamental concepts of statics and strength of materials. Solutions of problems introducing forces, moments, normal stress, shear stress, bending stress and torsional stress. Theory and application of strain gages.
	EGNR101	Introduction to Engineering	Course Description	An introduction to the different areas of study within the fields of electrical and mechanical engineering. Lecture topics and laboratory activities will introduce computer programming, computer simulation exercises, data-acquisition systems, microcontroller systems, communications, robotic and manufacturing applications, material science and dynamics.
	EGNR102	Concepts and History of Engineering	Course Description	This course provides instruction on problem-solving techniques using engineering tools and concepts as students work on an engineering design project. Topics in engineering ethics and the engineering work experience are discussed. A history of engineering and the development of the specific engineering fields are presented.
	EGNR103	Engineering Orientation	Course Description	This course provides an orientation to the engineering and engineering technology fields at Lake Superior State University, including robotics. Students are introduced to the engineering professional organizations and are encouraged to participate in professional activities. Laboratory exercises focus on introducing students to the engineering facilities and programmatic options within the engineering and engineering technology disciplines. Academic success strategies are also presented
	EGNR140	Linear Algebra and Numerical Methods for Engineers	Course Description	This course covers the engineering application of concepts from applied mathematics, iterative programming and numerical methods. Applications of linear algebra and complex numbers are introduced. Iterative programming emphasizes loops, conditional statements and user input-output. Numerical methods topics include root searching methods, numerical integration, and other algorithms involving iterative computations. The lab also includes instruction on commercially-available software used to implement the numerical methods studied.
	EGNR245	Calculus Applications for Technology	Course Description	This course covers engineering applications of differential and integral calculus, including areas, volumes of solids, vector analysis, matrix algebra, polar and cylindrical coordinate systems, partial differentiation, and multiple integrals for typical engineering technology problems. Application and solutions to engineering problems will emphasize and require the use of commercial software packages such as MathCAD and MATLAB.
	EGNR250	Cooperative Education	Course Description	A practicum in which students work in a supervised engineering capacity (on site) with industry. The student is expected to work at least 6 hours per week in an industrial setting. The student's experience must be related to his/her academic studies and thus this experience contributes significantly to his/her professional development. May be repeated for a maximum of 4 credits.
	EGNR260	Engineering Research Methods	Course Description	This is an introductory course covering research methods in engineering and engineering-related fields. The student will be involved in faculty-supervised and guided research activities such as assisting with developing experiments, gathering data and analyzing results. Much time will be spent learning about the research project, past experiments and future directions. Can be repeated for credit.
	EGNR261	Energy Systems and	Course Description	The course provides an introduction to energy conversion systems and discusses issues

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	EGNR261	Sustainability	Course Description	related to the sustainability of each system. Topics include basic energy definitions, traditional energy resources and reasons for pursuing alternative energy resources, renewable and nonrenewable energy resources, energy storage, and electrical grid integration. Topics also include policy as well as social, economic, and environmental sustainability issues as they relate to energy conversion
	EGNR265	C Programming	Course Description	An introductory course in \"C\" programming with an emphasis on structured programming techniques and on utilizing \"C\" to solve engineering-related problems. Topics include looping techniques, input and output to files, conditional flow of control, writing and utilizing functions, pointers, 1D and 2D arrays, and data storage
	EGNR310	Advanced Quality Engineering	Course Description	Provides an in-depth coverage of classical and modern methods of quality control and quality engineering. Topics include quality control principles and terminology, classical qualitative and quantitative quality control methods, including statistical process control procedures, and robust design methods as applied to product design and design of experiments, and an overview of quality management systems used in industry
	EGNR340	Advanced Numerical Methods for Engineers	Course Description	This is the second course covering numerical methods in engineering. Topics will include numerical methods for the solution of differential equations used to model and solve engineering problems, as well as numerical algorithms for linear algebra problems, Taylor's series, Fourier analysis and other selected applications.
	EGNR346	Probability and Statistics Laboratory for Engineers	Course Description	This laboratory accompanies MATH308, a calculus-based introduction to the basic theory of probability and statistics. Topics include methods of data collection, experimental design, interpretation of data and use of a statistical software tool.
	EGNR450	Cooperative Education Project I	Course Description	A practicum in which students work in a supervised engineering capacity (on site) with industry. This is the first of a two-part sequence that can replace the senior year Engineering Design Project II (EGNR495). The focus of this course is the development of the co-op project proposal and the initiation work on the co-op project. The expectation is that at least 60% of a forty hour work week is devoted to completing the project.
	EGNR451	Cooperative Education Project II	Course Description	A practicum in which students work in a supervised engineering capacity (on site) with industry. This is the second of a two-part sequence that can replace the senior year Engineering Design Project II (EGNR495). The focus of this course is the completion of the co-op project. The documentation at the completion of the project includes an update presentation and a final report/final presentation. The expectation is that at least 60% of a forty hour work week is devoted to completing the project.
	EGNR460	Engineering Research Project I	Course Description	This is a senior-level course in which students are actively involved in a faculty-supervised and guided research project. Students will acquire the skills listed under EGNR491 and develop a research plan for some portion of a project. The plan will be implemented in EGNR461. Specifically, the students will work to develop a proposal of the expected research goals and create a project timeline and budget. The student's faculty advisor and the director of the Lab for Undergraduate Research in Engineering (LURE) must approve the plan
	EGNR461	Engineering Research Project II	Course Description	This is a senior-level course in which students are actively involved in a faculty-supervised and guided research project. Students implement their research plan developed in EGNR460 and lead research efforts. Results and finding must be reported in oral and/or written forms to appropriate constituencies outside the LSSU audience.
	EGNR490	Research Topics in	Course Description	Special studies and/or research in engineering for individuals for small seminar groups.

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	EGNR490	Engineering	Course Description	Course content to be arranged with instructor and with approval of the department head. This course may be repeated for a maximum of eight credits
	EGNR491	Engineering Design Project I	Course Description	This course provides students with the skills necessary for successful completion of their design project. Topics include group dynamics, ethics, timelines, resource allocation, project management and performance evaluations. Skills in oral and written communications, problem conceptualization, creative problem solving and technical presentations are developed.
	EGNR495	Engineering Design Project II	Course Description	A continuation of EGNR491. This course provides students with the skills necessary for successful completion of their design project. Topics include group dynamics, engineering economics, timelines, resource allocation, project management and performance evaluations. Skills in oral and written communications, problem conceptualization, creative problem solving, and technical presentations are developed.
	EGNR496	Senior Directed Project	Course Description	This course is designed to allow industrial technology majors the opportunity to implement a project while working collaboratively with engineering and engineering technology students. Students will be expected to use the skills and knowledge from previous course work. Project outcomes should relate to the student's individual areas of study and represent a synthesis of the previous learning under the supervision of a faculty member.
	EGRS215	Introduction to Robotics	Course Description	An introduction and orientation to the field of robotics. Challenges in robotics manufacturing, design and structure of robotic systems, classification of robots, robot geometry, power sources, robotic control systems are covered in this course. The lab part of the course will provide an overview of robotics applications in industry through videos and hands-on experiences. Applied laboratory topics will cover basic programming concepts, structures, and applications using industrial robots.
	EGRS365	Programmable Logic Controllers	Course Description	An introduction to programmable logic controllers (PLC) with an emphasis on programming of the controller and operator interface. Standard PLC devices (bits, timers, counters etc.) and controller functions dealing with math, compare, moves, program flow, analog input, and high-speed counters will be covered in the course. Written and oral business communications are an integral part of the course.
	EGRS380	Robotics Technology	Course Description	This course will cover topics relative to robotics and robotics systems. Two- and three-dimensional kinematics, end effectors, active and passive collision systems, sensors, feedback devices, robotic safety, and principles of operation of applicable hardware will be studied.
	EGRS381	Robotics Technology Lab	Course Description	Laboratory exercises will provide hands-on examples in the use of industrial robots. Focus will be on learning a structured robotics programming language. Applications and projects will simulate industrial situations as well as emphasize system integration.
	EGRS385	Robotics Engineering	Course Description	An introduction to the field of robotics engineering. Topics include classification of robotic manipulators, accuracy and repeatability, wrists and end-effectors, actuators and sensors, homogeneous transformations, Denavit-Hartenberg convention, forward kinematics, inverse kinematics, trajectory planning and an introduction to velocity kinematics. Laboratory exercises will focus on the operation and programming of industrial robots and robotics simulation using industry standard software.
	EGRS430	Systems Integration and Machine Vision	Course Description	A study of the theory and application of sensors and machine vision in modern manufacturing systems. Topics will include position sensors, encoders, interface electronics,

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	EGRS430	Systems Integration and Machine Vision	Course Description	force and torque sensors, LAN, PLC, electrical noise, machine vision, lighting techniques, control software, feature extraction techniques and robot guidance.
	EGRS435	Automated Manufacturing Systems	Course Description	A study and analysis of the components of an automated manufacturing system. Topics include analysis of flow lines, automated assembly systems, MRP, materials requirement planning, production economics and CIM. Course work will include applications of manufacturing systems software including factory simulation. Laboratory work will focus on systems integration, advanced programming of industrial robots, and flow line automation.
	EGRS460	Control Systems	Course Description	An introduction to the analysis and design of linear feedback control systems. The course will include a study of system modeling, block diagrams, system response, stability, steady state error, bode plots and root locus. Laboratory exercises will develop a student's ability to design feedback systems and quantify system performance.
	EGRS461	Design of Control Systems	Course Description	This course builds upon the fundamental control system theory covered in EGRS460 and introduces various control system design techniques. General topics include Bode and root locus design techniques, controllability and observability, optimal control, state space design. Several classical design techniques such as phase-lead, phase-lag, deadbeat, pole placement and PID design are covered.
	EGRS480	Manufacturing Automation	Course Description	Study of the mathematical modeling of production concepts, analysis of automated flow lines, automated assembly systems, production economics, automated guided vehicles and materials requirement planning.
	EGRS481	Manufacturing Automation Lab	Course Description	The first part of the laboratory work will focus on programming Fanuc robots using the Karel programming language. Industry-like applications and system integration projects will be assigned. The second part of the lab work will include the application of WITNESS discrete-event simulation software package to study and analyze manufacturing systems.
TheCourses - English: ENGL, JOUR	ENGL091	Preparation for College Reading and Writing	Not offered	Based on assessment of course effectiveness in supporting students' development of skills required for success in ENGL110 and ENGL111, this course was deleted.
	ENGL110	First-Year Composition I	Academic Integrity	Demonstrate academic integrity
			Adapting to Purpose and Audience	Assess rhetorical situations, including audience and purpose, and adapt to them with the appropriate tone and level of formality
			Critical Thinking, Reading, and Writing	Demonstrate the ability to read critically and use sound logic in their writing
			Development and Organization	Establish a clear plan for writing and develop strategies to sustain that plan
			General Education - Communication	Analyze, develop, and produce rhetorically complex texts
			Knowledge of Conventions	Employ standard conventions of sentence structure, grammar, punctuation, and spelling, to achieve clarity
			Use of Sources	Analyze and incorporate reliable sources into their writing, using an appropriate citation style
			Writing Processes	Demonstrate recursive strategies for prewriting, drafting, revising, editing, and proof-reading, including the use of collaborative revision and multiple drafts, that lead to a rhetorically complex text

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	ENGL111	First-Year Composition II	Academic Integrity	Demonstrate academic integrity
			Adapting to Purpose and Audience	Assess rhetorical situations common to research-driven projects, including audience and purpose, and adapt to them with the appropriate tone and level of formality
			Critical Thinking, Reading, and Writing	Demonstrate the ability to read critically and apply academic skepticism and sound logic in their writing
			Development and Organization	Establish a clear plan for writing and develop strategies to sustain that plan throughout a comprehensive, research-driven project
			General Education - Communication	Analyze, develop, and produce rhetorically complex texts
			Knowledge of Conventions	Employ standard conventions of sentence structure, grammar, punctuation, and spelling, to achieve clarity
			Use of Sources	Find and evaluate reliable sources, including scholarly sources, and analyze, incorporate, and synthesize those sources, using an appropriate citation style
			Writing Processes	Demonstrate recursive strategies for prewriting, drafting, revising, editing, and proof-reading, including the use of collaborative revision and multiple drafts, that lead to a rhetorically complex text
	ENGL180	Introduction to Literary Studies	Cultural Context	Understand how texts, including those from beyond North America, express diverse cultural experiences
			General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
			Genre conventions	Demonstrate comprehension and analysis of the conventions of particular textual genres, including poetry, fiction, and drama
			Inquiry and Citation	Practice methods of inquiry and citation expected of academic discourse in English studies
			Surface Features	Employ standards of syntax, grammar, punctuation, and spelling expected of academic discourse
			Theoretical Terms	Understand theoretical terms and perspectives important in English studies
			Writing and Speaking	Demonstrate the capacity to write and speak clearly, read perceptively, and think critically
	ENGL221	Introduction to Creative Writing	Creation	Writes fiction, non-fiction, poetry, and drama that illustrates a basic understanding of the elements of craft, such as image, character, voice, sound, story, and setting.
			Critical Response - Workshop	Applies the vocabulary of the discipline to participate in productive class discussion by articulating the strengths and areas of improvement for peers' writing.
			Revision	Demonstrates an understanding of the value of revision.
	ENGL222	English Grammar	Descriptive and Prescriptive grammar	The student will demonstrate an understanding of the differences between descriptive and prescriptive conventions of usage.
			Different communicative situations	The student will demonstrate familiarity with the ways in which conventions of usage are adapted to different communicative situations.
			Grammar, Conventions, and History of English Language	The student will demonstrate knowledge of the grammar, conventions, and history of the English language

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Grammatical, syntactical, and lexical feature	The student will recognize the grammatical, syntactical, and lexical feature of the English language in a variety of contexts.
			Structure of Language	The student will demonstrate familiarity with concepts relating to the structure of language
	ENGL223	Creative Writing II	Creation	Writes fiction and poetry that demonstrates an intermediate level understanding of the elements of craft (such as image, character, voice, sound, story, and setting) and engages in experimentation to begin to develop voice and style.
			Critical Response - Workshop	Applies the vocabulary of the discipline to participate in productive class discussion by articulating the strengths and areas of improvement for peers' writing.
			Critical Response - Written	Reads and responds critically to fiction and poetry in writing, demonstrating an awareness of craft.
			Publishing World	Demonstrates an understanding of the publishing world and the process by which creative work is submitted and evaluated for publication.
			Revision	Accepts constructive criticism and uses it to revise work.
	ENGL231	American Literature I	Culture and Diversity	Describe how literature embodies and expresses diverse cultures, ethnicities, gender, or sexualities in North America before 1865.
			Form and Terminology	Synthesize formal analysis and knowledge of cultural context in order to analyze literary texts.
			Genre Studies	Describe the major literary movements and genres and their relationship to formal innovation in North American literature before 1865.
			Literary History and Canon	Describe the major literary movements and genres and their relationship to formal innovation in North American literature before 1865.
			Literary History and Canon/Culture and Diversity	Recognize the interrelationships between literary texts and North American culture before 1865.
	ENGL232	American Literature II	Culture and Diversity	Recognize the interrelationships between literary texts and North American culture after 1865.
			Culture and Diversity 2	Understand how literature embodies and expresses diverse cultures, ethnicities, gender, or sexualities in North America after 1865.
			Form and Terminology	Synthesize formal analysis and knowledge of cultural context in order to analyze literary texts.
			Literary History and Canon	Learn and comprehend major literary movements and genres and their relationship to formal innovation in North American literature after 1865.
	ENGL233	English Literature I	Form and Terminology	Demonstrate a working vocabulary of literary/cultural terminology specific to the period and the genres of literature within the period
			Intertextual Connections	Define connections between major literary works and the minor literary/historical work that contextualize them
			Literary History and Canon	Identify and discuss key passages from major works of the period
			Text and Context	Define connections between events of the period and the literature framed by those events
			Textual Analysis	Apply techniques of close reading and critical analysis of a work or works of the period in a formal essay

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Theory and Criticism	Demonstrate familiarity with basic literary criticism of the Middle Ages, as well as the sixteenth, seventeenth, and eighteenth centuries
	ENGL234	English Literature II	Close Reading	Apply the techniques of close reading and critical analysis of a work or works of the period in a formal essay
			Contextualization	Define connections between major literary works and the minor literary/historical works that contextualize them
			Framing	Define connections between events of the period and the literature framed by those events
			Identify and Discuss	Identify and discuss key passages from major works of the period
			Literary Criticism	Demonstrate familiarity with basic literary criticism of the 18th, 19th, 20th, and 21st centuries
			Vocabulary	Demonstrate a working vocabulary of literary/cultural terminology specific to the period and the genres of literature within the period
	ENGL235	Survey of Native Literature of North America	Culture and Diversity	Understand how literature embodies and expresses diverse cultures, ethnicities, gender, or sexualities.
			Culture and Diversity 2	Recognize how some perspectives have been historically marginalized and literature's role in and against such marginalization
			General Education - Diversity	View the world from cultural perspectives other than their own
			Textual Analysis	Analyze the strategies in which writers represent or depict diverse cultures, ethnicities, gender, or sexualities.
	ENGL236	Literature and Culture	Culture and Text	Analyze the reciprocal relationship of diverse cultures with texts
			General Education - Diversity	View the world from cultural perspectives other than their own
			Textual Analysis	Compare and contrast the characteristics of texts from a variety of cultures, including American minorities and other underrepresented cultur
	ENGL301	Creative Prose Writing	Creation	Composes fiction or nonfiction that illustrates a firm grasp of elements of craft, such as character, voice, story, setting, and meaning.
			Critical Response - Workshop	Considers theory and craft of prose to participate in class discussion by articulating the strengths and areas of improvement for peers' writing.
			Critical Response - Written	Reads and responds critically in writing to fiction and nonfiction, demonstrating an awareness of theory and craft.
			Publishing World	Applies knowledge of the publishing world and the process by which prose is submitted and evaluated for publication.
			Revision	Considers reader feedback in revision.
	ENGL302	Poetry Writing	Creation	Composes poetry that illustrates a firm grasp of elements of craft, such as image, diction, voice, sound, line, and form.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Critical Response - Workshop	Considers theory and craft of poetry to participate in class discussion by articulating the strengths and areas of improvement for peers' writing.
			Critical Response - Written	Reads and responds critically in writing to poetry, demonstrating awareness of theory and craft.
			Publishing World	Applies knowledge of the publishing world and the process by which poetry is submitted and evaluated for publication.
			Revision	Considers reader feedback in revision.
	ENGL303	Performance Writing	Creation - revision	Apply the elements of craft, such as character, voice, story, setting, and format in development of scripts.
			Critical Response - Workshop	Considers theory and craft of performance writing to participate in class discussion by articulating the strengths and areas of improvement for peers' writing.
			Publishing World	Applies knowledge of the publishing world and the process by which performance writing is submitted, selected, and evaluated for production.
			Revision	Considers reader feedback in revision.
	ENGL306	Technical Writing	Audience Need	Assess audience needs and develop communication strategies for meeting those needs.
			Constraints	Identify and assess constraints within a communication situation and develop strategies for responding to those constraints.
			Layout & Design	Students will use effective layout and design (effective visual communications)
			Oral Presentation	Demonstrate oral presentation skills
			Production	Design and produce technical/business communications.
			Revision	Apply situation-appropriate tools and techniques for revising and editing drafts.
			Teamwork	Demonstrate effective teamwork skills
			Technical Communication	Identify and implement technical communication skills relevant to specific field.
			Time Management	Apply writing and scheduling processes in completing major writing projects.
	ENGL320	Responding to Writing	Visual Rhetoric	Students will apply the principles of visual rhetoric when integrating visuals into documents
			Composition Theory	Apply major trends and tenets in composition theory to the writing process, developmental schemes, writing in society, voice, and visual communication and meaning.
			Purpose and Audience	Evaluate the appropriateness of different writing forms for various purposes and audiences
			Research Practices	Apply research and reference sources in inquiry-based learning in English education
			Writing Models	Evaluate and discuss appropriate theoretical models to implement in the instruction of writing, including portfolio evaluation, workshop, and peer review.
			Writing Process 2	Practice the writing process: pre-writing strategies, drafting, revising, editing, and proofreading.
	ENGL335	Children's Literature	Communication and Comprehension	Respond critically in writing to and about children's literature
			Issues & Themes	Identify and analyze key issues and recurring themes in children's literature
			Selection & Evaluation	Apply accepted criteria of the field in evaluating and selecting children's literature.
			Visual Text	Analyze the significance and analyze the formal characteristics of illustrations in children's

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Visual Text	literature
			Works & Genres	Identify the major genres, works, and writers of children’s literature
	ENGL336	Young Adult Lit and Culture	Literature	Identify, analyze, and consider a wide variety of quality contemporary and classic literature; literature appropriate for different developmental levels and student needs, including multicultural/world literature, literature by women, and YA literature; and issues of censorship.
			Society & Culture	Analyze the social, cultural, and dynamic nature of literature (particularly the reciprocal relationship between literature, culture, and individual identity).
	ENGL345	Studies in Classic Texts	Canon	Analyze questions of canon and the nature of the “classic” text
			Criticism & Analysis	Apply formal and theoretical criticism in the analysis of texts
			Society & Culture	Analyze the historical, social, and cultural significance of classic literature, including the ways in which literary works and movements both reflect and shape culture, while recognizing how an author’s interests and background (e.g., religion, class, ethnicity, and region) may influence his or her work.
			World Literature	Analyze how formal and critical elements function in texts that originate from beyond the typical North American canon. Consider the significance of major writers, works, and movements in the development of world literature in English exclusive of North American literature, including classic Greek drama, classic British literature from the Anglo-Saxon period through the twentieth century, Shakespeare, mythology, and folklore.
	ENGL380	History of Literary Criticism	Historical & cultural Development	Analyze the historical and cultural development of theoretical texts
			Schools of Criticism	Define and discuss the distinguishing characteristics of the major schools of criticism.
			Understanding Critical Texts	Analyze a variety of critical texts
	ENGL398	Community Workshop Internship	Workshop Leadership	Students will demonstrate the ability to lead creative writing community workshops.
	ENGL399	Publishing Internship	Critical discussion	Demonstrates ability to participate in productive class discussion by articulating the strengths and areas of improvement for writing using the vocabulary of the discipline.
			Management	Build and execute a publication timetable for creation of a distinct issue of a literary journal
			Publishing	Demonstrate an understanding of the publishing world and the process by which creative work is submitted and evaluated for publication.
			Theory, Literature, and Craft of Fiction	Read and respond critically to writing in and about a variety of genres, demonstrating awareness of theory, literature, and craft.
	ENGL409	Advanced Writing Workshop	Creation	Writes creative work that illustrates an advanced grasp of the elements of craft, such as image, character, voice, sound, story, and setting.
			Critical Response	Reads and responds critically to writing in and about a variety of genres, demonstrating advanced awareness of theory, literature, and craft.
			Peer Critique	Demonstrates an advanced ability to participate in productive class discussion by articulating the strengths and areas of improvement for peers’ writing using the vocabulary of the discipline.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Process	Demonstrates an advanced understanding of the publishing world and the process by which creative work is submitted and evaluated for publication.
			Revision	Demonstrates thoughtful synthesis of reader feedback and an advanced understanding of the value of revision.
	ENGL435	Studies in Visual Texts	Canon and Visual Texts	Analyze questions of canon and the visual text
			Concepts of Visual Analysis	Describe formal and theoretical concepts of analyzing visual texts
			Context	Analyze the historical/social contexts of and relationships among visual texts
			Formal and Theoretical Criticism	Apply formal and theoretical criticism in the analysis of visual texts, considering their characteristics and forms
			Visual Communication	Discuss the active and constructive nature of viewing and visually representing information, including identifying elements of visual language (e.g., symbols, shapes, and composition); analyzing the contextual importance of cultural, social, economic, and historical factors to visual communication; and recognizing the role of viewers' prior experiences in their understanding of visual images
	ENGL440	Advanced Studies in British Literature	Form and Terminology	Synthesize concepts of literary form with critical theory in order to analyze texts
			Text and Context	Analyze the interrelationships between the British cultural context and texts specific to the respective course topic.
			Textual Analysis	Apply formal and theoretical criticism in the analysis of texts from British literature
			Textual and Cultural Analysis	Synthesize formal analysis and knowledge of cultural context in order to analyze literary texts
			Theory and Criticism	Synthesize preceding and current criticism and scholarship on British literature
	ENGL442	Advanced Studies in American Literature	Form and Terminology	Synthesize concepts of literary form with critical theory in order to analyze texts
			Text and Context	Analyze the interrelationships between American cultural context and texts specific to the respective course topic
			Textual Analysis	Apply formal and theoretical criticism in the analysis of texts from American literature
			Textual and Cultural Analysis	Synthesize formal analysis and knowledge of cultural context in order to analyze literary texts
			Theory and Criticism	Synthesize preceding and current criticism and scholarship on American literature
	ENGL450	Directed Individual Study	Independent Study	Conduct extensive research and create a paper focused on the individual study of an author, period, genre, or other topic relevant to literary scholarship.
	ENGL470	Language Arts Senior Thesis	Evaluation and Critique	Integrate thesis advisor's critique in manuscript editing.
			Research Proposal	Synthesize concepts in order to propose a project in the field of English Language Arts, using a minimum of 20 sources.
			Theory and Criticism	Synthesize preceding and current scholarship on a specific area of study in the field of English Language Arts.
			Writing, Research, and Scholarship	Compose extended and researched scholarship of a minimum of 20 pages length, using primary, secondary, and scholarly sources.
	ENGL480	Creative Writing	Creation	Students will use the elements of craft to initiate work on compelling works of literary merit

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	ENGL480	Portfolio I	Creation	in chosen genres and to make significant progress toward completion of that work.
			Pathways	Students will determine how best to sustain a writing life by choosing a particular focus for their creative work and creating a proposal to develop a writing project that can lead to progress on a career pathway.
			Publishing World	Students will analyze the process by which creative work is evaluated for publication and identify significant trends in publishing.
	ENGL482	Creating Writing Portfolio II	Creation	Students will use the elements of craft to create and complete unified collections of creative work of literary merit in chosen genres
			Pathways	Students will analyze the portfolio experience to determine the potential for further development on their writing-related pathways
			Revision	Students will reflect thoughtfully on feedback and revise work in a manner that demonstrates a synthesis of individual skill and craft theory
	ENGL490	Senior Thesis I	Research	Effectively use and integrate appropriate sources and research.
			Research Proposal	Synthesize concepts of literary form, critical theory, and cultural context in order to propose a project using a minimum of 20 sources
			Theory and Criticism	Synthesize preceding and current criticism and scholarship on a specific area of literary study
	ENGL499	Senior Thesis II	Evaluation and Critique	Integrate thesis advisor's critique in manuscript editing
			Writing, Research, and Scholarship	Compose extended and researched scholarship of a minimum of 25 pages length, using only primary and scholarly sources
	JOUR211	Newswriting	History & Law	Discuss the history and evolution of journalism, including issues relating to law and ethics
			Newsworthiness	Appraise stories for news worthiness.
			Newswriting	Gather, process and write news and opinion pieces on current matters, meeting all deadlines.
			Research	Investigate stories using interview and research skills
			Standards and Formats	Apply professional standards and formats in print and broadcast news and public relations materials.
	JOUR220	Photojournalism	Photojournalism	Describe important elements of practical photojournalism, both in terms of providing material to newspapers or working as a freelance photojournalist
	JOUR310	Editing and Production	Not Offered	This course has not been taught in many years and has been recommended for deletion.
	JOUR413	Directed Individual Studies	Not Offered	This course has not been taught in many years and has been recommended for deletion.
TheCourses - Fire Science and Emergency Services: FIRE, EMED	EMED189	Medical First Responder	Airway Management	Demonstrate effective basic and advanced techniques of airway management and ventilation in the mangement of simulated patients.
			Behaviors	Select behaviors that promote EMS workforce safety and wellness.
			Clinical Reasoning	Engage in a process of clinical reasoning to identify hypothesis and develop differential diagnosis for patients with a variety of medical complaints and presentations.
			Communication	Communicate effectively by radio, in-person, and in writing in health care and public safety contexts.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Knowledge of EMS System	Apply knowledge of the characteristics, components and functions of emergency medical services (EMS) systems to professional decision-making.
			Medical History	Obtain a complete, relevant medical history from patients presenting with a variety of complaints and conditions.
			Patient Assessment	Perform purposeful patient assessment tailored to the needs of individual patients and situations.
			Patient monitoring devices.	Incorporate the use of patient monitoring devices into the patient assessment process.
			Physical Needs	Respond to anticipated physical, psychological, and psychosocial needs of patients across the life span.
			Principles of Anatomy	Apply principles of anatomy, physiology and pathophysiology to the assessment and management of simulated patients.
			Professional Characteristics	Integrate the professional characteristics expected of MFR into interactions with patients, colleagues, and the public.
	EMED190	Prehospital Emergency Care and Crisis Intervention I	Airway Management	Demonstrative effective basic and advanced techniques of airway management and ventilation in the management of simulated patients.
			Characteristics of EMS System	Apply knowledge of the characteristics, components, and functions of emergency medical services (EMS) systems to professional decision-making.
			Clinical Reasoning	Engage in a process of clinical reasoning to identify hypothesis and develop differential diagnosis for patients with a variety of medical complaints and presentations.
			Communication	Communicate effectively by radio, in-person, and in writing in health care and public safety contexts.
			Medical History	Obtain a complete, relevant medical history from patients presenting with a variety of complaints and conditions.
			Monitoring Devices	Incorporate the use of patient monitoring devices into the patient assessment process.
			Patient Assessment	Perform purposeful patient assessment tailored to the needs of individual patients and situations.
			Physical Needs	Respond to anticipated physical, psychological, and psychosocial needs of patients across the life span.
			Principles of Anatomy	Apply principles of anatomy, physiology, and pathophysiology to the assessment and management of simulated patients.
			Professional Characteristics	Integrate the professional characteristics expected of EMT-Basics into interactions with patients, colleagues, and the public.
			Safety & Wellness	Select behaviors that promote EMS workforce safety and wellness.
	EMED191	Prehospital Emergency Care and Crisis Intervention II	Airway Management	Demonstate effective basic and advanced techniques of airway management and ventilation in the management of simulated patients.
			Clinical Reasoning	Engage in a process of clinical reasoning to identify hypotheses and develop differential diagnoses for patients with a variety of medical complaints and presentations.
			Communication	Communicate effectively by radio, in-person, and in writing in health care and public safety

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Communication	contexts.
			Knowledge of Characteristics	Apply knowledge of the characteristics, components, and functions of emergency medical services (EMS) systems to professional decision-making.
			Medical History	Obtain a complete, relevant medical history from patients presenting with a variety of complaints and conditions.
			Patient Assessment	Perform purposeful patient assessment tailored to the needs of individual patients and situations.
			Patient Monitoring Devices	Incorporate the use of patient monitoring devices into the patient assessment process.
			Physical Needs	Respond to anticipated physical, psychological, and psychosocial needs of patients across the life span.
			Principles of Anatomy	Apply principles of anatomy, physiology, and pathophysiology to the assessment and management of simulated patients.
			Professional Characteristics	Integrate the professional characteristics expected of EMT-Basics into interactions with patients, colleagues, and the public.
			Safety and Wellness	Select behaviors that promote EMS workforce safety and wellness.
	EMED211	Emergency Pharmacology I	Actions of Drugs	Discuss the actions of drugs commonly taken by patients (prescription and over-the-counter).
			Administration of Medication	Discuss the paramedic's responsibility with regard to the administration of medication.
			Calculate IV Drip Rates	Accurately calculate IV drip rates and drug dosages.
			Classify Drugs	Classify Drugs according to their primary actions of the body.
			Drug Information	Use authoritative sources of drug information.
			Forms of Drugs	Identify sources and forms of drugs.
			Legal and Ethical Considerations	Explain legal and ethical considerations in pharmacology and medication administration.
			Profiles of Drugs	Discuss profiles of drugs commonly used in EMS.
			Relating Pharmacology to Anatomy	Relate pharmacology to pertinent anatomy, physiology, and pathophysiology.
			Routes of Administration	Compare and contrast routes of administration.
			Terminology	Define terminology related to the study of pharmacology.
	EMED212	Emergency Pharmacology II	Actions of Drugs	Discuss the actions of drugs commonly taken by patients (prescription and over-the-counter).
			Administration of Medication	Discuss the paramedic's responsibility with regard to the administration of medication.
			Calculate IV Drip Rates	Accurately calculate IV drip rates and drug dosages.
			Classify Drugs	Classify Drugs according to their primary actions of the body.
			Drug Information	Use authoritative sources of drug information.
			Forms of Drugs	Identify sources and forms of drugs.
			Legal and Ethical Considerations	Explain legal and ethical considerations in pharmacology and medication administration.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Profiles of Drugs	Discuss profiles of drugs commonly used in EMS.
			Relating Pharmacology to Anatomy	Relate pharmacology to pertinent anatomy, physiology, and pathophysiology.
			Routes of Administration	Compare and contrast routes of administration.
			Terminology	Define terminology related to the study of pharmacology.
	EMED251	Advanced Emergency Care I	Airway Management	Apply principles of airway management and ventilation to the assessment and management of patients.
			Anatomy and Physiology	Apply principles of anatomy and physiology and principles of the pathophysiology of common disorders to the assessment and proposed management of patients.
			Clinical Reasoning	Engage in a process of clinical reasoning to identify hypotheses and develop differential diagnoses for patients with a variety of medical complaints and presentations.
			Communication	Communicate effectively by radio, in-person, and in writing in health care and public safety contexts.
			Knowledge of EMS System	Apply knowledge of the characteristics, components, and functions of emergency medical services (EMS) systems to professional decision-making.
			Medical History	Obtain a complete, relevant medical history from patients presenting with a variety of complaints and conditions.
			Medical Legal/Ethical Issues	Appropriately respond to medical/legal and ethical issues in the practice of paramedicine.
			Patient Assessment	Perform purposeful patient assessment tailored to the needs of individual patients and situations.
			Physical, Psychological and Psychosocial Needs	Respond to anticipated physical, psychological and psychosocial needs of patients across the life span.
			Professional Characteristics	Integrate the professional characteristics expected of paramedics into interactions with patients, colleagues, and the public.
			Public Health	Apply principles of public health to the roles and responsibilities of paramedics.
			Published Reports	Critically evaluate published reports of EMS research.
			Roles and Responsibilities	Explain the roles and responsibilities of paramedics.
			Safety and Wellness	Select behaviors that promote EMS workforce safety and wellness.
	EMED252	Advanced Emergency Care II	Airway Management	Apply principles of airway management and ventilation to the assessment and management of patients.
			Clinical Reasoning	Engage in a process of clinical reasoning to identify hypotheses and develop differential diagnoses for patients with a variety of medical complaints and presentations.
			Communication	Communicate effectively by radio, in-person, and in writing in health care and public safety contexts.
			Knowledge of EMS System	Apply knowledge of the characteristics, components, and functions of emergency medical services (EMS) systems to professional decision-making.
			Medical History	Obtain a complete, relevant medical history from patients presenting with a variety of complaints and conditions.
			Medical Legal/Ethical Issues	Appropriately respond to medical/legal and ethical issues in the practice of paramedicine.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Patient Assessment	Perform purposeful patient assessment tailored to the needs of individual patients and situations.
			Principles of Anatomy	Apply principles of anatomy and physiology and principles of the pathophysiology of common disorders to the assessment and proposed management of patients.
			Professional Characteristics	Integrate the professional characteristics expected of paramedics into interactions with patients, colleagues, and the public.
			Public Health	Apply principles of public health to the roles and responsibilities of paramedics.
			Published Reports	Critically evaluate published reports of EMS research.
			Responding to Physical Needs	Respond to anticipated physical, psychological, and psychosocial needs of patients across the lifespan.
			Roles and Responsibilities	Explain the roles and responsibilities of paramedics.
			Safety and Wellness	Select behaviors that promote EMS workforce safety and wellness.
	EMED261	Emergency Cardiology I	12-Lead ECG	Apply knowledge of 12-lead ECG findings to patient assessment and management decisions.
			Anatomy/Physiology of Cardio System	Explain the anatomy and physiology of the cardiovascular system.
			Assess patients	Assess patients presenting with cardiovascular complaints to determine the appropriate prehospital care.
			Cardiac Rhythms	Interpret static and dynamic cardiac rhythms using lead II electrocardiography.
			Electrocardiography	Describe the purposes, use, and limitations of prehospital 12-lead electrocardiography.
			Management Plan	Develop a management plan for the prehospital care of patients with cardiovascular complaints and emergencies.
			Pathophysiology	Relate the pathophysiological and cardiovascular disorders to the signs, symptoms, assessment, and management of each disorder.
	EMED262	Emergency Cardiology II	Anatomy/Physiology of Cardio System	Explain the anatomy and physiology of the cardiovascular system.
			Assess patients	Assess patients presenting with cardiovascular complaints to determine the appropriate prehospital care.
			Cardiac Rhythms	Interpret static and dynamic cardiac rhythms using lead II electrocardiography.
			Electrocardiography	Describe the purposes, use, and limitations of prehospital 12-lead electrocardiography.
			Management Plan	Develop a management plan for the prehospital care of patients with cardiovascular complaints and emergencies.
			Pathophysiology	Relate the pathophysiological and cardiovascular disorders to the signs, symptoms, assessment, and management of each disorder.
	EMED271	Care of Special Populations	Special Populations	Apply knowledge of anatomy, physiology, pathophysiology, assessment, and management to identify and formulate treatment plans for the following special populations of patients: Pregnant patients and patients in labor, neonates, infants, children and adolescents, elderly patients, patients with special health challenges and technology.
	EMED284	Advanced Skills and Situations I	Airway Management	Demonstrate safe, effective techniques of establishing peripheral intravenous access in simulated patients.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Anatomy and Physiology	Apply principles of anatomy, physiology and pathophysiology to the assessment and management of simulated patients.
			Clinical Reasoning	Engage in a process of clinical reasoning to identify hypotheses and develop differential diagnoses for patients with a variety of medical complaints and presentations.
			Communication	Communicate effectively by radio, in-person, and in writing in health care and public safety contexts.
			Intravenous Fluids	Monitor simulated patients receiving intravenous fluids, to include ensuring the IV is infused at an appropriate rate.
			Knowledge of EMS System	Apply knowledge of the characteristics, components, and functions of emergency medical services (EMS) systems to professional decision-making.
			Medical History	Obtain a complete, relevant medical history from patients presenting with a variety of complaints and conditions.
			Medical Legal/Ethical Issues	Appropriately respond to medical/legal and ethical issues in the practice of paramedicine.
			Patient Assessment	Perform purposeful patient assessment tailored to the needs of individual patients and situations.
			Patient Monitoring Devices	Incorporate the use of patient monitoring devices into the patient assessment process.
			Physical, Psychological and Psychosocial Needs	Respond to anticipated physical, psychological and psychosocial needs of patients across the life span.
			Professional Characteristics	Integrate the professional characteristics expected of paramedics into interactions with patients, colleagues, and the public.
			Safety and Wellness	Select behaviors that promote EMS workforce safety and wellness.
	EMED285	Advanced Skills and Situations II	Anatomy and Physiology	Apply principles of anatomy, physiology and pathophysiology to the assessment and management of simulated patients.
			Clinical Reasoning	Engage in a process of clinical reasoning to identify hypotheses and develop differential diagnoses for patients with a variety of medical complaints and presentations.
			Communication	Communicate effectively by radio, in-person, and in writing in health care and public safety contexts.
			Intravenous Access	Demonstrate safe, effective techniques of establishing peripheral intravenous access in simulated patients.
			Intravenous Fluids	Monitor simulated patients receiving intravenous fluids, to include ensuring the IV is infused at an appropriate rate.
			Knowledge of EMS System	Apply knowledge of the characteristics, components, and functions of emergency medical services (EMS) systems to professional decision-making.
			Medical History	Obtain a complete, relevant medical history from patients presenting with a variety of complaints and conditions.
			Medical Legal/Ethical Issues	Appropriately respond to medical/legal and ethical issues in the practice of paramedicine.
			Patient Assessment	Perform purposeful patient assessment tailored to the needs of individual patients and situations.
			Patient Monitoring Devices	Incorporate the use of patient monitoring devices into the patient assessment process.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Physical, Psychological and Psychosocial Needs	Respond to anticipated physical, psychological and psychosocial needs of patients across the life span.
			Professional Characteristics	Integrate the professional characteristics expected of paramedics into interactions with patients, colleagues, and the public.
			Safety and Wellness	Select behaviors that promote EMS workforce safety and wellness.
	EMED286	Paramedic Operations	EMS Responsibilities	Perform the responsibilities of EMS providers during each phase of an ambulance call.
			EVO	Adhere to principles of safe emergency vehicle operation.
			HAZMAT Situations	Describe the paramedic's role in response to hazardous materials situations.
			Identify Hazardous Materials	Identify US DOT and NFPA hazardous materials placards and use resources to determine essential information about the substance.
			Incident Command System	Operate within an incident command system at the scene of disasters, multiple casualty incidents, rescue operations, and response to terrorism events.
			Interacting with Law Enforcement	Interact with law enforcement to operate in a mutually beneficial manner on crime scenes.
			Key Terms	Define key terms related to operational aspects of EMS practice.
			Moving of Patients	Adhere to principles of safe and effective packaging, positioning, lifting and moving of patients.
			Paramedic's Role	Describe the paramedic's role in rescue situations.
			Personal Safety	Maintain personal safety and the safety of others in EMS operations.
			Rescue Personnel	Work with rescue personnel to provide medical care to patients requiring rescue.
			Special Rescue Operations	Recognize scenes that call for special rescue operations and resources.
			Tools for Special Rescue Situations	Describe tools and procedures used for special rescue situations.
	EMED297	Paramedic Clinical I	Airway Management	Demonstrate safe, effective techniques of establishing peripheral intravenous access in simulated patients.
			Anatomy and Physiology	Apply principles of anatomy, physiology and pathophysiology to the assessment and management of simulated patients.
			Clinical Reasoning	Engage in a process of clinical reasoning to identify hypotheses and develop differential diagnoses for patients with a variety of medical complaints and presentations.
			Communication	Communicate effectively by radio, in-person, and in writing in health care and public safety contexts.
			Knowledge of EMS System	Apply knowledge of the characteristics, components, and functions of emergency medical services (EMS) systems to professional decision-making.
			Medical History	Obtain a complete, relevant medical history from patients presenting with a variety of complaints and conditions.
			Patient Assessment	Perform purposeful patient assessment tailored to the needs of individual patients and situations.
			Patient Monitoring Devices	Incorporate the use of patient monitoring devices into the patient assessment process.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Physical, Psychological and Psychosocial Needs	Respond to anticipated physical, psychological and psychosocial needs of patients across the life span.
			Professional Characteristics	Integrate the professional characteristics expected of paramedics into interactions with patients, colleagues, and the public.
	EMED298	Paramedic Clinical II	Safety and Wellness	Select behaviors that promote EMS workforce safety and wellness.
			Airway Management	Demonstrate safe, effective techniques of establishing peripheral intravenous access in simulated patients.
			Anatomy and Physiology	Apply principles of anatomy, physiology and pathophysiology to the assessment and management of simulated patients.
			Clinical Reasoning	Engage in a process of clinical reasoning to identify hypotheses and develop differential diagnoses for patients with a variety of medical complaints and presentations.
			Communication	Communicate effectively by radio, in-person, and in writing in health care and public safety contexts.
			Knowledge of EMS System	Apply knowledge of the characteristics, components, and functions of emergency medical services (EMS) systems to professional decision-making.
			Medical History	Obtain a complete, relevant medical history from patients presenting with a variety of complaints and conditions.
			Patient Assessment	Perform purposeful patient assessment tailored to the needs of individual patients and situations.
			Patient Monitoring Devices	Incorporate the use of patient monitoring devices into the patient assessment process.
			Professional Characteristics	Integrate the professional characteristics expected of paramedics into interactions with patients, colleagues, and the public.
			Safety and Wellness	Select behaviors that promote EMS workforce safety and wellness.
	EMED301	National Registry Certification Preparation	Functioning Safely/Effectively as an EMT/Paramedic	This course is part of a composite program that is designed to prepare the student in function safely and effectively in the role of the EMT-Paramedic in the field emergency setting. It is expected that after careful review each student be allowed to complete patient care in the presence of their preceptor.
	EMED302	Paramedic Field Internship	Functioning Safely/Effectively as an EMT/Paramedic	This course is part of a composite program that is designed to prepare the student in function safely and effectively in the role of the EMT-Paramedic. It is intended to be a brief but comprehensive reivew of didactic and practical course work presented over the preceding 10 months of the Paramedic Technology Program, in preparation of the student challenging the National Registry Paramedic Certification Examination.
	FIRE101	Introduction to Fire Science	Fire Extinguishment	Understand methods of fire extinguishment and safety.
			Fire Prevention	Become familiar with fire prevention, communications and inspections.
			Nature/Behavior of Fire	Understand the nature of fire and fire behavior.
			Standards	Become oriented to firefighting standards.
			Writing & Reading	Become familiar with writing and reading for the emergency services.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	FIRE102	Wildland and Rural Fire Control	Terms & Concepts - Extinguishing Agents	Recognize, describe and discuss the terms and concepts relevant to extinguishing agents used in wildland fire fighting activities.
			Terms & Concepts - Protection Planning	Recognize, describe and discuss the terms and concepts relevant to wildland fire protection planning, fire prevention and investigation.
			Terms & Concepts - Wildland Fire Incident Management	Recognize, describe and discuss the terms and concepts relevant to wildland fire incident management and suppression methods.
			Terms & Concepts - Wildland Firefighting Tools	Recognize, describe and discuss the terms and concepts relevant to wildland fire fighting tools and personal protective equipment.
			Terms & Concepts - Wildland Safety	Recognize, describe and discuss the terms and concepts relevant to wildland firefighter safety and survival.
			Terms & Concepts - Wildland/Urban Concepts	Recognize, describe the terms and concepts relevant to wildland/urban interface fire suppression and control.
			Terms and Concepts - Fire Apparatus	Recognize, describe and discuss and terms and concepts relevant to fire apparatus and communications equipment used in wildland fire situations.
			Terms and Concepts - Wildland Fire Behavior	Recognize, describe and discuss the terms and concepts relevant to wildland fire behavior, fuel and topography.
	FIRE111	Hazardous Materials	Assess a Situation	Assess a situation involving a hazardous chemical, whether element or compound, and recommend safety measures which must be in place for both the public and emergency responders.
			Chemical Concepts	Discuss basic chemical concepts such as the state of matter, the periodic table, elements, compounds and chemical reactions.
			Fire Classifications	Explain basic fire classifications and identify chemical or nuclear explosives.
			Grouping chemicals	Place a given chemical or group of chemicals into the DOT Hazardous classes1 through 9.
			Identify toxins	Identify toxins and biological organisms which threaten life and injury to plants, animals and humans.
	FIRE197	Physical Fitness for Public Safety	Basic behind fitness	Understand the basics behind fitness and wellness as it relates to the law enforcement officer and firefighters.
			Behavior Change	Be exposed to reasons for behavioral change with fitness.
			Benefits of Exercise	Understand some of the benefits and guidelines for exercise.
			Knowledge of Coronary Risk	Have a basic knowledge of coronary risk factors.
			Lower Back Care	Understand some basic lower back care.
			Nutrition	Have a basic knowledge of nutrition.
			Stress Management	Understand the basics of stress management.
			Weight Control	Understand some basics of weight control.
	FIRE201	Fire Protection Construction Concepts	Basic Regulations	Identify the basic regulations that apply to building construction projects.
			Building Construction	Understand the importance of studying building construction as a firefighter.
			Fire Protection	Describe the various types of fire protection systems and how they apply to building construction.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Forces	Identify the variety of forces and different types of loads and how they are applied to building construction.
			Hazards	Identify and describe the hazards to firefighters of the different types of materials used in construction of a building.
	FIRE204	Fire Protection Hydraulics and Pumps	Hydraulic Theory	Recognize, describe and discuss the terms and concepts relevant to hydraulic theory and principles, fire-ground flow and friction loss considerations, and pump discharge pressure calculations.
			Operating Principles	Recognize, describe and discuss the terms and concepts relevant to operating principles and construction of a fire pump, pump peripherals, and hose, appliances, and nozzles.
			Pump Operator	Recognize, describe and discuss the terms and concepts relevant to the duties and responsibilities of a pump operator, preventative maintenance of emergency vehicles, and skills and understanding of driving emergency vehicles.
			Pumping Needs	Glean relevant information from a scenario description in order to recognize, describe, and/or discuss pumping needs, means and calculations for production of necessary pressures used to provide fire streams during firefighting pre-planning and suppression.
			Water Supplies	Recognize, describe and discuss the terms and concepts relevant to water supplies, pump operations, and pump discharge maintenance and troubleshooting.
	FIRE206	Fire Protection Systems, Equipment and Industrial Fire Protection	Applying fire and safety concepts	List the difficulties involved in applying fire and safety concepts in an office or business setting.
			Business & Safety Requirements	Describe the dynamics between business and safety requirements.
			Case Study	Analyze a case study by relating two of the above course objectives to industrial firefighting.
			Fire and Life Hazards	Differentiate and describe fire and life hazards in business and industry.
			Implement/Monitor Fire Safety Programs	Explain how to implement and monitor fire and safety programs.
	FIRE211	Tactics and Strategy	IAP	Complete and turn in Incident Action Plan (IAP)
			IS100, IS200, IS700 & IS800	Complete requirements for IS100 and IS200, as well as IS700 and IS800 on-line.
			Safety at the Scene	Discuss the importance of safety at the scene of an emergency.
			Strategic Factors	List and explain the strategic factors which are present in fireground and emergency operations.
	FIRE219	Firefighter Essentials	Fire Extinguishment	Understand methods of fire extinguishment and safety.
			Fire Prevention	Be familiar with fire prevention, communication and inspections.
			Fire Standards & Protective Equipment	Be oriented to firefighting standards and fire protective equipment.
			Firefighter I Certification	Be familiar with the requirements for the Firefighter I certification process.
			Hazardous Materials	Be familiar with requirements for Hazardous Materials Awareness and operations certifications.
			Nature of Fire	Understand the nature of fire and fire behavior.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	FIRE220	Fire Science Certification	Assignments	Complete all assignments
			Skills	Perform the assigned skills successfully.
			SOM Practical Exam	Complete the State of Michigan practical certification exam.
			SOM Written Exam	Complete the state of Michigan written certification examination.
	FIRE301	Code Enforcement Inspection and Fire Prevention	Code Enforcement	Analyze the interrelationship between the various agencies involved in code enforcement and administration.
			Fire Prevention Education	Describe the complimentary aspects of a public fire prevention education program with the fire inspection and code system for a local unit of government.
			Pre-Fire Survey	Create a pre-fire survey or emergency plan for a specific site using a form that the student will create, adjusting formulas to meet designated needs.
			State and Federal Codes	List state and federal codes that coincide with the pre-fire survey or emergency plan created by the students.
			Synthesize a Report	Synthesize a report that illustrates how a local unit of government adopts a fire code into law.
	FIRE312	Hazardous Materials Management	Federal Laws & Regulations	Become acquainted with federal laws and regulations and demonstrate this acquaintance by describing the sections of 29 CFR 1910.120 which apply to HAZWOPER.
			Hazardous Materials	Demonstrate proper use of the hazardous materials reference material.
			Hazards used by Terrorists	Explain the possible use of hazardous chemical, biological agents, radiological sources, and explosives which might be employed by terrorists.
			HAZMAT Incident	Understand complicating factors which might be involved in an actual HAZMAT incident through participation in tabletop practical exercises.
			HAZWOPER	Obtain the HAZWOPER card which is issued by New Environment, Inc.
			Personal Protection Equipment	Understand the limits of personal protective equipment.
			SARA Title III	Explain and analyze an actual SARA Title III site specific plan.
	FIRE315	Company Level Supervision and Management	Group Dynamics	Be familiar with group dynamics, communication, motivation, counseling, and conflict resolution.
			Management Styles	Identify and discuss management styles.
			Supervision & Leadership Theories	Understand the common supervision and leadership theories and practices.
			Techniques in Leadership	Have a working knowledge of techniques in leadership.
			Uniqueness of Supervision	Discuss the uniqueness of supervision and leadership in the fire service.
	FIRE325	Homeland Security and Emergency Services	Constitutional & Legislative Issues	Analyze the constitutional and legislative issues related to emergencies, as well as the processes and tools of emergency management and terrorism responses.
			Development of Homeland Security	Describe the development of Emergency Management and Homeland Security, including national, state and local strategies in mitigating emergencies and combating terrorism.
			Emergency Management	List the principles and practices involved in emergency management and terrorism response.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Emergency Response Report	Create an emergency response report, working in a table-top scenario to plan and implement the contents of the report.
	FIRE401	Senior Seminar	Analyze Data	Analyze and synthesize evidence to support PICO Issue and recommendations.
			Issue identification	Student will develop a PICO research question on a fire service related topic using evidence based research
			Research Methods	Student will demonstrate effective literature search methodology.
			Research Paper	Produce a well organized and well written research paper.
	FIRE402	Fire Service and the Law	Federal, State and Local Regulations	Recite federal, state and local regulations that influence emergency services and explain the role and purpose of national codes and standards.
			Liabilities and Legal Duties	Define and recognize the liabilities and legal duties of firefighters and emergency service members.
			Potential discrimination	Define and identify areas of potential discrimination; as well as to identify, explain and discuss the legalities of employee and employer relationships.
			Types of Laws	Define the different types of laws, explain their basic differences and understand how law functions in today?s society.
	FIRE403	Fire Science Internship	Appraisals	Analyze and evaluate appraisals of supervisor who guided individual through the internship.
			Critical Situations	Describe critical situations and how these situations can be de-escalated.
			Well Written Paper	Create a well written paper discussing the particular internship experience.
	FIRE490	Independent Study for Fire Science	Proficiency	Demonstrate a proficiency in the topic of choice
			Research Project	Conduct an independent research project.
			Synthesize	Synthesize evidence into a comprehensive argument
TheCourses - General Studies: HONR, INTD, LIBR, SERV, USEM	LIBR101	Information and Information Technology Literacy	Books, Government Documents and Interlibrary Loan	Use the information found in on-line catalogs to locate books and government documents held at LSSU, and to request items available through inter-library loan.
			Catalogs	Identify and use on-line catalogs to find a book, knowing the Author or Title, Subject Heading or keywords
			Course Software	Navigate the online courseware system, such as Moodle.
			Find appropriate information	Utilize general and subject specific library and Internet tools to find and choose materials that will provide appropriate information for class projects.
			Internet Information	Analyze the quality of information found on the Internet, and cite that information.
			Ownership of periodicals and interlibrary loan	Identify and locate LSSU-held periodicals, and use the inter-library loan process to obtain a copy if LSSU does not hold a specific periodical.
			Use Internet search tools	Identify strengths and weaknesses of Internet search tools.
	SERV100	University Success Strategies	Not offered	Course has not been offered since Fall 2012. Recommend deletion.
	SERV125	Career Planning and Decision Making	Career Goals	Identify possible career goals based on an analysis of the results of personal career testing and online career exploration programs.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Career Networking	Use personal professional resume to network, post on LSSU e-recruiting site, and attend LSSU Career Fair.
			Program Selection	Compare personal interests, aptitudes, and personality traits to program offerings at Lake Superior State University.
			Understanding of Self	Discuss the relationship between personality traits, interests and career choices.
	USEM101	University Seminar I: Foundations for Success	Academic Success Strategies	Articulate a variety of academic success strategies.
			Connections	Discover and connect to opportunities on and off campus.
			Ethics and Professionalism	Apply standards of ethics and professionalism.
			Long-term Planning	Explore career goals and personal strengths
			Plan of Study	Generate a two- or four-year plan of study
			University Resources	Locate and navigate university resources
	USEM102	University Seminar II: Developing Critical Thinking	Critical Thinking	Analyze community needs to identify possible service learning projects.
			Evaluation	Assess impact of service learning project and develop recommendations for future activities.
			Organizational Skills	Develop and implement a program activity plan for a service learning project.
	USEM103	University Seminar III: Thinking About the Discipline	Not offered	Course has only been offered once, Fall 2015. Recommend deletion.
	USEM104	University Seminar IV: Professional Seminar	Portfolio	Assemble a professional portfolio/credentials file
			Post-graduation Plans	Identify and apply to at least three job postings or graduate schools.
TheCourses - Human Services: PSYC, SOCY, SOWK	PSYC101	Introduction to Psychology	APA Goal 1.2	Demonstrate knowledge and understanding representing appropriate breadth and depth in selected content areas of psychology (e.g., learning and cognition, individual differences, biological bases of behavior, developmental changes in behavior)
			General Education - Social Science	Think critically and analytically about the causes and consequences of human behavior
			Theories and Concepts	Explain the basic theories and concepts of psychology
	PSYC155	Lifespan Development	Adolescence through Emerging Adulthood	Students will be able to describe and critically assess the current status and recent history of social, emotional, cognitive, and physical changes associated with the period from puberty until approximately the mid 20s
			Development from 3 months to age 4	Subset of exam questions assessing this content--average score =70%
			Development from age 1 year until age 12	Student will be able to demonstrate knowledge of and apply information to developmental issues reflecting physical, cognitive, and social development
			Early childhood	Be able to describe key developmental aspects of years 1-4
			Emerging adulthood	Students will demonstrate knowledge regarding biopsychosocial aspects of emerging adulthood

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			General Ed Outcome-- Generation of Psychological knowledge and Theories	Based om selected subset of questions exam 1= 70% or above Percentage score = 67.5%
			General Education - Social Science	Think critically and analytically about the causes and consequences of human behavior
			Integrative	Students will apply course content to questions integrating key themes from across the course
			Late Life	Students will demonstrate knowledge of biopsychosocial aspects of late life
			Middle and older adulthood	Students will be able to describe and critically evaluate the research and theoretical models accounting for developmental changes associated with middle age and late adult life (60s and older)
			Middle Childhood	Average class score of 70% or above on a subset of exam questions
			Midlife	Students will demonstrate knowledge of biopsychosocial aspects of middle adulthood
			Prenatal and Infancy	Students will be able to describe key physical, cognitive, and social aspects of development in the period from conception until 12 months
			psych theories	Demonstrate knowledge of the major (5) theories of development and the processes of generating new knowledge in developmental psychology
			Summer --Online version of course: Neurocognitive disorders in late life	Student will be able, in written form, to describe, key symptoms, current knowledge of causes, and the course of the following conditions: Alzheimer's Disease, Multi-infarct Dementia, Dementia with Lewy Bodies, Delirium
	PSYC201	Communication Skills in Counseling	Counseling Responses	Students will be able to identify and use twelve operationally defined verbal responses employed by counselors in helping interviews.
			Counseling Theories Into Counseling Stages	Students will be able to integrate the techniques of two or more counseling theories into the stages of counseling.
			Interviewing in Real Time	Students will be able to use six of the operationally defined counseling reponses during interviews in real time.
	PSYC210	Statistics	APA 2.4 Interpret, design, and conduct basic psychological research	2.4 Describe research methods used by psychologists including their respective advantages and disadvantages
			APA 4.1f - Interpretation of Quantitative Data	4.1f Interpret quantitative data displayed in statistics, graphs, and tables, including statistical symbols in research reports
	PSYC212	Experimental Psychology	APA 1.1	Describe key concepts, principles, and overarching themes in psychology.
			APA 2.4a - Describe Research Methods	2.4a Describe research methods used by psychologists including their respective advantages and disadvantages
			APA 4.1 Demonstrate effective writing for different purposes	4.1d Write using APA Style
	PSYC217	Social Psychology	Applications	3) Identify appropriate applications of social psychology in solving problems in areas, such as health promotion, forensic psychology, or industrial/organizational psychology.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Ethics	4) Recognize and apply appropriate ethical considerations relevant to the conduct and interpretation of social psychological research
			Research methods	2) Explain different research methods used by social psychologists, and be able to distinguish the nature of designs that permit causal inferences from those that do not
			Trends	1) Demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in social psychology.
	PSYC240	Behavior Management	assessment	Develop an understanding of evidence-based principles relevant to the assessment of behavior and the design and evaluation of behavioral interventions
			Behavioral interventions	Critically evaluate examples of various behavioral interventions
			historical	Develop an appreciation of the important historical and ethical issues relevant to the science of behavior modification
			Interventions	Explore how learning theories provide a basis for many interventions and approaches in the field of behavioral modification
			Project	Apply your knowledge of human behavior and behavioral change through the design and evaluation of your own intervention through a behavioral change project
	PSYC259	Abnormal Psychology	Anxiety Disorders and related conditions--OCD,PTSD	Subset of exam questions (Class average=70% or above)
			Anxiety, Dissociative, and Somatoform Disorders	Students will be able to describe symptoms, current understanding of causes, and treatments for anxiety, somatoform, and dissociative disorders
			changes made in course	list of changes and updates to course 2013-14 academic year
			Childhood	Students will be able to describe key diagnostic features of AD/HD, conduct and oppositional defiant disorders
			General Theories and Research	Students will be able to describe and distinguish perspectives of abnormality--both contemporary and historically--as well as describe psychological theories applied to abnormal behavior and current research methods used in the field
			Integrative/cumulative questions	Conceptual questions that address concepts that are used across course
			Medical Model	Students will demonstrate ability to describe two benefits and two drawbacks of the medical model applied to abnormal behavior
			Mood Disorders	Able to describe symptoms, causes, and treatments for mood disorders and suicide as well as apply this information to brief case vignettes
			Personality Disorders	Students will be able to describe key symptoms and distinguish between 8 common personality disorders as well as explain current views of causation and treatment
			personality disorders –	total score equals 66.17% for class average; standard is 70% or above

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			subset of test items	total score equals 66.17% for class average; standard is 70% or above
			Psychological Assessment	Students will score above 70% on a subset of questions assessing this topic
			Schizophrenia	Students will be able to describe key symptoms, current views of causes, and treatments for schizophrenia as well as apply information to brief case vignettes
			Somatic Symptom and related Disorders	Average score on subset of exam items
			Substance Abuse	Performance on a subset of exam questions
			Substance abuse and Impulse control disorders	Students will be able to name and describe psychological effects of commonly abused psychoactive substances and name other conditions to which the substance abuse/dependence model has been applied
			Summer --online -- Personality Disorders	Students will be able, in writing, to describe key diagnostic features and provide at least one current causal explanation for the conditions
			Summer online Psych 259 Schizophrenia	Student will, in a written format, provide the key and associated symptoms of schizophrenia; at least two explanations for the condition and two specific treatments for schizophrenia
	PSYC265	Child and Adolescent Development	Development	<ul style="list-style-type: none"> Build your critical thinking skills in terms of how you approach understanding and examining topics related to child and adolescent development.
			Interactions	<ul style="list-style-type: none"> Examine how cultural and biological inheritances interact in the complex process of human development.
			perspectives	<ul style="list-style-type: none"> Develop an understanding of how various perspectives contribute to the interdisciplinary field of developmental science
			Project	<ul style="list-style-type: none"> Apply your knowledge of human development to evaluate examples of developmental research through the final research project
			Theories	<ul style="list-style-type: none"> Explore and evaluate theories and research related to major stages and milestones in child development and how these stages and milestones are experienced by children in various contextual circumstances
	PSYC291	Group Counseling	Techniques	(1) knowledge of a number of specific techniques commonly used in the leadership of counseling groups
			Theories	(2) an understanding of the application of counseling theories to the group counseling process
	PSYC301	Exceptional Child and Adolescent	ADHD diagnosis causes treatments	Subset of exam questions--70% or above class average
			Anxiety Disorders	Students will describe key symptoms, current etiological theories, and treatments for childhood anxiety disorders (Social anxiety, obsessive compulsive disorder, generalized anxiety disorder, separation anxiety disorder; specific phobia)
			Apply research to a clinical case	Short paper--scoring based on number of research and ethical issues reported

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Autism spectrum Disorder	Demonstrate knowledge of symptoms, causes and interventions, and variations of Autism spectrum Disorder
			Causes and Risk factors for Child and adolescent psychopathology	Performance on a subset of exam questions
			changes to course--both in class and online version	changes to course based on self assessment
			Childhood Disruptive Behavior Disorders	Student will be able to describe key symptoms, etiological theories and treatments for disruptive behavior disorders (AD/HD, Conduct Disorder, ODD)
			Diagnostic System	Student will be able to describe key elements of DSM system and apply to childhood mental health conditions
			Elimination disorders	Students will be able to determine developmentally the age that enuresis and encopresis are considered problematic and describe established interventions
			Learning Disabilities	Students will be able to describe criteria for diagnosis of learning disabilities as well as characteristics of common learning disabilities
			Models and perspectives on abnormality	class average on subset of exam questions= 70% or above
			Mood disorders	Student will be able to describe symptoms of common mood disorder conditions (major depressive disorder, dysthymic disorder, bipolar disorder), etiological theories, and evidence-based treatments and distinguish them from adult forms of the disorder
			psych 301-00N	Student will be able to describe symptoms and causes of at least 2 childhood anxiety disorders
			PSYCH 301--00N online	ADHD and Medical Model : Student will be able to write the key pros and cons of medical model and describe in writing the DSM 5 symptoms of ADHD
			Psych 301--00N online Level of Prevention and Causal Factors in Childhood Psychopathology	Score on a case study---mock grant proposal
			Psych 301-00N Developmental and Cognitive Disabilities	Cognitive and Developmental Disabilities: Autism Spectrum Disorders and Learning Disabilities
			PSYCH 301-00N online	Mood disorders : Student will be able to describe symptoms of common mood disorder conditions (major depressive disorder, dysthymic disorder, bipolar disorder), etiological theories, and evidence-based treatments and distinguish them from adult forms of the disorder
			Psych 301-00N online ADHD and Medical Model	Student will be able to write the key pros and cons of medical model and describe in writing the DSM 5 symptoms of ADHD
			risk factors	Student will be able to describe at least 5 risk factors for child psychopathology including at least one biological and at least one social-environmental dimension
	PSYC311	Learning and Motivation	APA 2.2 Demonstrate psychology information	2.2a Read and summarize general ideas and conclusions from psychological sources accurately

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	PSYC311	Learning and Motivation	literacy	2.2a Read and summarize general ideas and conclusions from psychological sources accurately
			APA 2.4d - Conduct Simple Scientific Studies	2.4d Replicate or design and conduct simple scientific studies (e.g., correlational or twofactor) to confirm a hypothesis based on operational definitions
			APA 5.1d - Real World Applications of Learning Theory	5.1d Describe how psychology's content applies to business, healthcare, educational, and other workplace settings
	PSYC357	Personality Theory	Adler's Individual Psychology (ex 2:2)	Describes 7 key elements of theory
			Behavioral and Cognitive Behavioral Theories	Students will be able to describe key elements of behavioral and cognitive-behavioral theories, accompanying research support and how these models are applied to individuals and communities
			Changes and explanation 2013-14	Changes in course content and rationale
			Depth and Interpersonal Models of Personality	Students will be able to describe the key elements and research support for depth and interpersonal theories of personality
			Freudian theory	Average of 70% score on subset of exam 1 questions
			humanistic and existential	Students will be able to describe key elements of humanistic and existential theory including the similarities and differences between the 2 perspectives
			Interpersonal	Students will be able to describe key elements of interpersonal theory (Yalom, Sullivan) and their contributions to psychotherapy
			Locate empirical, quantitative research literature in psychology	Students will be able to provide 3 quantitative research articles addressing a construct from personality psychology
			Personality --metatheory and research	performance on exam--subset of exam questions
			Phenomenological and Existential Theories of Personality	Students will be able to describe the key conceptual elements of phenomenological theories, their research support and how these models have been applied as psychological interventions
			Summarize research from literature in the field	students will be able to write concise summaries of research articles; the reader should be able to have an understanding of the hypotheses, method, and results from the student's written summary
			Theory and Research (1, 2, 3)	Students will be able to describe key elements of a personality theory as well as how research is conducted in the discipline
			Trait Theories	Students will be able to describe at least 3 trait theories including how these models were developed and supporting research
	PSYC385	Health Psychology	Adherence	70% or above on set of exam questions
			Adherence--factors (ex 2-2)	Average score of 70% on subset of questions
			Application--self-assessment of health	90 % of class able to locate, complete and interpret an objective measure of health behavior

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Changes made in class after revi	See list
			Chronic illness and Chronic Pain (Ex 3-2)	Score of 70% on a subset of exam questions
			Compare U.S. and International health care systems (ex 1-2)	Average score of 70% or above on a written question asking about benefits and shortcomings of health care in 4 countries and U.S.
			Describes major socio-economic features of U.S. health care system (ex1-1)	Average score of 80% or above on a subset of test items
			Describes role of culture in health (ex 1-3)	Average score of 80% or above on a subset of test items
			Knowledge of models of health behavior	Average score of 70% or above on a subset of test items
			Positive psychology	average of 70% on subset of test questions 70% of class obtains average of 70% or above
			Sleep and Sleep Disorders (ex 3-3)	Average score of 70% or above on subset of test questions
			Smoking (Ex 3-1)	Average score of 80% on subset of exam questions
			Stress and coping methods (ex 2-3)	72% on a subset of test questions
			Stress Assessment and coping methods	Average score of 70% or above on subset of test questions
	PSYC391	Family Therapy	Behavioral (Objectives 6 and 7)- changes in course 2013-14	Students will be able to describe key elements of behavioral and cognitive-behavioral models of family therapy see list
			Existential-EXperiential (Objective 8)	.Able to describe key elements of Existential-Experiential family therapy
			Narrative and Solution - Focused	Able to describe key elements of Narrative and Solution-focused family therapy:
			Paper Assignment (Objective 13)	. Able to apply one or more theories of family therapy to understanding one's own family-of-origin OR an aspect of family diversity (ethnicity, gender, sexual orientation
			Psychodynamic Family Therapy	Student will obtain an average score of 70% or above on subset of questions on exam
			Psychodynamic/ Historical Models Objectives 4 and 5 on attached	Students will be able to describe at least 2 major figures and key concepts of 2 historical models of family therapy
			Structural Strategic (Objectives 9 and 10)	Able to describe key elements of Structural and Strategic family therapy:
			Theory and History	Students will be able to define key concepts and describe history of development of family

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			(Objectives 1, 2, 3 on attached)	therapy
	PSYC396	Tests and Measurements	Context	Explore how the social and historical context have played a role in the development of the field of psychometrics ?
			Test generation	Apply the skills and techniques you are learning through the creation or modification of a psychological test.
			Theories	? Develop an understanding of basic theoretical and methodological principles relevant to the creation of psychological measures ?
			Validity	Build your skills in critically evaluating the validity of psychological tests and measures
	PSYC456	History and Systems of Psychology	APA 1.2C Develop a working knowledge of psychology's content domains	Summarize important aspects of history of psychology, including key figures, central concerns, research methods used, and theoretical conflicts
	PSYC457	Cognition	APA 2.2A - Read and Summarize Research	2.2A Read and summarize complex ideas accurately, including future directions, from psychological sources and research
			APA 4.1 Demonstrate effective writing for different purposes	4.1D Employ APA writing style to make precise and persuasive arguments
	PSYC459	Physiological Psychology	APA 1.3 Describe applications of psychology	1.3B Evaluate how the mind and body interact to influence psychological and physical health
			APA 2.2a - Review Current Research	2.2a Read and summarize general ideas and conclusions from psychological sources accurately
	PSYC490	Research Topics in Psychology	Research	2. Demonstrate the ability to conduct in-depth library research on a psychological topic and organize, in writing, a review of the literature
			Study	1. Complete all or part of a qualitative or quantitative study as indicated above—either in collaboration with the instructor or independently-specific objectives may include literature review, data gathering, data analysis and/or a professional manuscript
	PSYC495	Senior Research Practicum	Proposed changes in course	List of changes
			See Psych 499-- 495 AND 499 these are the same class	same as Psych 499
	PSYC498	Senior Research I	APA 2.2 Demonstrate psychology information literacy	2.2A Read and summarize complex ideas accurately, including future directions, from psychological sources and research
			APA 2.3A - Operational Definitions	2.3A Describe problems operationally to study them empirically

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			APA 3.1D - Complete an IRB/IACUC Application	3.1D Evaluate critically or complete an IRB/IACUC application that adheres to ethical standards
	PSYC499	Senior Research II	and the rest	6. Demonstrate skills in organizing data sets to facilitate analysis 7. Demonstrate skills in use of appropriate software (e.g., SPSS) to analyze research data 8. Demonstrate the ability to select, implement, and correctly interpret appropriate statistical tests in data analysis. 9. Demonstrate the ability present a research project as a poster, in APA format, with content understandable to an educated lay audience. 10. Write a completed research report, in APA thesis style, with correct headings, use of tables and figures, organization, references, and correct grammar and spelling. 11. Demonstrate the ability to break down a large project into smaller components—each of which has a deadline for completion. 12. Demonstrate the ability to meet established deadlines for specific components of the overall research project
			Consent	1. Describe the basic elements and rationale of informed consent for research.
			Describe	4. Describe and carry out a program of data gathering and during this process demonstrate practical knowledge of experimental controls, threats to reliability and validity, and ethical issues such as confidentiality of participant data.
			IRB	2. Complete an Institutional Review Board proposal and have it approved.
			Recruitment	3. Write and orally deliver an appropriate subject recruitment statement.
				.
	SOCY101	Introduction to Sociology	Defining Sociology	Definition of sociology as a discipline
			General Education - Social Science	Think critically and analytically about the causes and consequences of human behavior
			Research methods	Describe the major research methods in sociology
			Sociological concepts	Define and apply major sociological concepts
			Sociological imagination	Assess the world from a sociological perspective
			Sociological perspectives	Describe and apply the three major sociological perspectives
	SOCY102	Social Problems	General Education - Social Science	Think critically and analytically about the causes and consequences of human behavior
	SOCY103	Cultural Diversity	Affirmative Action	Understand the reasons behind structural attempts to increase equality and be familiar with current programs.
			Creation and Maintenance of Inequality	Recognize how inequality is created and similarly maintained between groups.
			General Education - Diversity	View the world from cultural perspectives other than their own
			Inequalities in Health Care	Be knowledgeable of the inequalities that exist between groups of people in the American

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Inequalities in Health Care	health care system.
			Inequality at Work	Know how minority status is maintained in both work and the economic system.
			Inequality in the Justice System	Understand how inequality operates in the criminal justice system.
			Institutional Discrimination	Understand the concept of institutional discrimination.
			Language and Media	Recognize the role that language and media play in creating and maintaining gender, racial and sexual stereotypes.
			Limitations of Mainstream Approaches	Understand the limits of mainstream approaches to solving inequality.
			New Programs Addressing Inequality	Be aware of new approaches and programs which have the possibility of reducing inequality in the future.
			Prejudice and Interaction	Comprehend how prejudice colors every aspect of human interaction.
			Theory	Understand and recognize symbolic interactionist, functionalist, and conflict perspectives of inequality.
	SOCY113	Sociology of the American Family	General Education - Social Science	Think critically and analytically about the causes and consequences of human behavior
	SOCY213	Introduction to Anthropology	General Education - Diversity	View the world from cultural perspectives other than their own
	SOCY214	Criminology	Crime, Law and History	Students will develop an informed understanding related to how societal and legal changes have effected crime causation and how these factors have been interconnected throughout history.
			Critical Theories	Students will be able to recognize and apply various forms of Critical Theories to both explanations for and solutions to crime.
			Development Theories	Students will be able to recognize and apply various forms of Developmental Theories to both explanations for and solutions to crime.
			Enterprise and Public Order Crime	Students will be familiar with current statistics and patterns of Public Order, Corporate and Enterprise Crime and will be able to recognize the legal categories and historical responses to the various types of such crimes.
			Interpersonal Violence	Students will be familiar with current statistics and patterns of interpersonal violence and will be able to identify the historical context.
			Linking Theory with Policy	Students will be able to link theory with social processes and policy formation.
			Nature and Extent of Crime	Students will be familiar with the main facts and figures of commonly reported crimes from the three major sources of crime data (UCR, NCVS, Self-Report).
			Rational Choice Theory	Students will be able to recognize and apply various aspects of rational choice theories to both explanations and situationally grounded solutions to crime.
			Social Process Theories	Students will be able to recognize and apply various forms of Social Process Theories to both explanations for and solutions to crime.
			Social Structural Theories	Students will be able to recognize and apply various forms of Social Structural theories to both explanations for and solutions to crime.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Theory Application	Students will refine analytical, reasoning, and connective abilities in order to see how each theory offers certain explanations and only certain solutions.
			Trait Theories	Students will be able to recognize and apply various iterations of Individual Trait Theories to both explanations and solutions to crime.
			Victims and Victimization	Students will be able to identify and distinguish between the differing focuses of the major theories of victimization.
	SOCY225	Native Cultures of North America	General Education - Diversity	View the world from cultural perspectives other than their own
	SOCY238	Social Psychology	ethnography	ethnographic study
			Self & social structure	Explain how social structures impact and shape the self
			Selves across context	Compare and contrast the ways in which people's selves vary across context
			Theories	Describe the major theories of how the self is developed
	SOCY301	Social Research Methods	Communicate	1. Communicate effectively
			Methods	4. Understand and evaluate the application of sociological methods to social behavior and issues
			Recognize Research Methods	Students will recognize and understand basic social research methodology.
			Think	2. Think critically, analytically, and reason logically about social issues and/or social problems.
	SOCY310	Development of Sociological Theory	Apply theory	Apply classical sociological theory to the current world
			Evaluate theory	Evaluate classical theories
			History of theory	Describe the history of theory in sociology
			Major theoretical foundations	Describe the major classical theoretical foundations of sociology
			Marx	Understand Marx's basic theory of capitalism and the terminology he uses.
	SOCY311	Contemporary Sociological Theory	Apply theory	Apply contemporary sociological theory to the current world
			Evaluate theory	Evaluate contemporary theories for their strengths and weaknesses
			main ideas of theorists	Describe the main ideas of major contemporary theorists
	SOCY321	Sociology of Women	Deviance	Students will recognize how deviance and responses to it are shaped by social factors and be familiar with major biases within the justice system
			Economy	Students will be able to discuss gender stratification and roles in work and the U.S. Economy and identify key factors in their structural maintenance.
			Education and Science	Students will recognize structural and cultural elements embedded in social institutions which have shaped the role of women in education and science.
			Family	Students will be able to recognize and discuss key elements from readings and case studies of

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Family	changing family structure in the U.S. over the last 300 years.
			General Education - Diversity	View the world from cultural perspectives other than their own
			Health	Students will recognize differences in how social institutions shape our views and responses to female health issues in the U.S.
			Media	Students will be able to identify the major factors influencing what we see as normal for women in U.S. Culture when viewing various forms of media.
			Power and Politics	Students will be able to recognize gendered aspects and patterns in both interpersonal power exchanges and in the political system.
			Religion	Students will be able to recognize masculine gender biases in multiple world religions.
			Sexuality	Students will be able to identify the effects of social institutions on human sexuality and intimacy.
	SOCY327	The Sociology of Dying and Death	Awareness	02. To make students aware of contemporary issues in the area of dying and death, and to provide information that will allow them to think critically about issues related to dying and death
			Course	01. To provide students with a factual course on dying and death in contemporary American society.
	SOCY338	Deviance	Apply theory	Students will be able to recognize and apply Strain, Conflict, Control, Labeling, and Feminist theoretical explanations to various deviant behaviors.
			Causes of Deviance	Students will understand the causes of deviance in society and society's responses to deviant behavior.
			Constructed & Criminal Deviance	Students will understand and recognize the difference between constructed and criminal deviance.
			Deviant Groups	Students will be able to recognize the various forms of deviance within various deviant lifestyles, both on and offline.
			Mental Disorders	Students will be familiar with various forms of mental disorders, their respective demographics, justifications and subcultures.
			Physical Deviance	Students will be familiar with various forms of physical deviance, their respective demographics, justifications and subcultures.
			Religious Deviance	Students will be familiar with various forms of religious deviance, their respective demographics, justifications and subcultures.
			Sexual Deviance	Students will be familiar with various forms of sexual deviance, their respective demographics, justifications and subcultures.
			Substance Abuse	Students will be able to demonstrate familiarity with various forms of substance abuse, their respective demographics, justifications and subcultures.
			Theory Evaluation & Extension	Students will analyze the deviance discussed in 10 newspaper articles from at least three difference theoretical perspectives and recognize when contemporary articles apply those theories.
	SOCY399	Sociology Junior Seminar	Abstract research articles	Students will be able to abstract research articles.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Find topically relevant research articles	Students will be able to find topically relevant research articles from compilations of research journals.
			Literature Review	Students will be able to discuss and give examples of the basic steps to writing a literature review.
			Logically connect propositions of a theory	Students will be able to logically connect the propositions of a theory.
			Problem statements	Students will be able to write falsifiable problem statements and formulate research expectations.
			Sections and transitions of a research paper	Students will be able to outline the sections and transitions necessary to writing a sociological research paper.
			Tables, Figures and Diagrams	Students will be able to make simple tables, figures and diagrams for the written presentation of data.
	SOCY401	Sociology Seminar I	Conference Research Proposal	Students will apply to present their research findings at an academic conference.
			Hypotheses	Students will develop falsifiable hypotheses which are appropriately and logically grounded in theory and past findings.
			IRB	Students will apply to an institutional review board and receive permission to conduct social scientific research.
			Literature Review	Students will write a literature review in a thesis format for an original research paper.
			Methodology	Students will develop appropriate methodology to conduct an original research project in the social sciences.
			Presentation	Students will construct and present a PowerPoint presentation on the initial stages of their original research topic.
	SOCY402	Sociology Seminar II	Charts	Students will explain and construct charts appropriate for the presentation of their statistical findings.
			Data Collection	Students will collect data in methodologically sound ways in order to determine the value of theoretically interconnected research statements.
			Discussion of Findings	Students will write, discuss, and present the findings, implications, and conclusions of their original research project.
			Presentation	Students will present their original research findings to a public audience.
			Research Poster	Students will design and create a research poster presentation for display to the LSU campus.
			Senior Thesis	Students will create a senior thesis.
			Statistics	Students will apply appropriate statistical techniques in order to analyze the patterns that exist within and between complex and unidimensional variables.
	SOCY490	Independent Research Topics in Sociology	Contemporary Events	Students will critically analyse contemporary sociological discussion of events, ideas and situations.
			Evaluate Claims	Students will logically organize and critically evaluate the claims made by contemporary authors of social commentary.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Sociological Perspectives	Students will apply various sociological perspectives to discussions of institutions, roles and social issues.
			Summarize	Students will comprehend and be able to provide a written summary of the ideas presented in various books with sociological observations.
	SOCY495	Senior Project I	Conference Research Proposal	Students will apply to present their research findings at an academic conference.
			Hypotheses	Students will develop falsifiable hypotheses which are appropriately and logically grounded in theory and past findings.
			IRB	Students will apply to an institutional review board and receive permission to conduct social scientific research.
			Literature Review	Students will write a literature review in a thesis format for an original research paper.
			Methodology	Students will develop appropriate methodology to conduct an original research project in the social sciences.
			Presentation	Students will construct and present a PowerPoint presentation on the initial stages of their original research topic.
	SOCY496	Senior Project II	Charts	3. Be able to explain and construct charts appropriate for the presentation of statistical findings.
			Data	1. Be able to collect data in methodologically sound ways in order to determine the value of theoretically interconnected research statements.
			Poster	6. Have constructed a research poster presentation for display on the LSSU campus.
			Project	4. Be able to write, discuss, and present on the findings, implications, and conclusions of an original research project.
			Public	7. Have presented their original research findings to a public audience.
			Thesis	5. Have a completed senior thesis.
			Unidimensions	2.. Be able to select and apply appropriate statistical techniques in order to analyze the patterns that exist within and between complex and unidimensional variables.
	SOCY497	Community Action Plan	Analyze	03. To analyze the behavior of individuals, groups, and societies in an applied setting.
			Apply	01. Apply material from previous sociology courses.
			Utilize	02. To utilize sociological concepts and terms in an applied setting.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Utilize	
	SOWK110	Introduction to Social Work	Profession and practice	introduce students to the Social Work profession and practice including its origins, philosophy, ethics, professional roles, and practice settings (i.e. public welfare, child welfare, mental health). The course will examine populations-at-risk, in today's society, and introduce students to the Generalist approach to Social Work
	SOWK250	Social Work Practicum	Applying	Applying theoretical knowledge and beginning/observing skills in: Assessment, Intervention skills, Evaluation of services
			Developing	Developing initial skills in relationship building
			Understanding	Understanding the practicum setting
			Using	Using oral and written methods of communication
	SOWK344	Social Welfare Systems	Social welfare	introduce students to a variety of social welfare policy issues in the U.S. Historical, political, and economic factors that involve social welfare systems will require critical thinking skills in understanding the ambiguity between promise and fulfillment within our society. Populations at risk will be explored as well as how differences between groups can effect social policy and implementation of that policy. Classroom exercises regarding various issues will demand the active participation of the student.
	SOWK480	Grantwriting	Competencies	<ul style="list-style-type: none"> have the competencies needed to submit a grant proposal to the most appropriate funding source
			Process	<ul style="list-style-type: none"> understand the grant writing process and be able to find and access grant resources
			Skills	<ul style="list-style-type: none"> have the skills and knowledge needed to develop a grant proposal
TheCourses - Kinesiology: EXER, KINS, RECA, RECS	KINS101	Foundations of Kinesiology	Concepts	Discuss the basic concepts of kinesiology, including terms and philosophy, from an exercise, physical activity and sport movement perspective.
			Devise a working definition and appreciation for the field of Kinesiology	Devise a working definition and appreciation for the field of Kinesiology
			Sociocultural and behavioral perspectives	Effectively understand sociocultural and behavioral perspectives of kinesiology
			The student will question how performance is influenced by society, culture, technology and information processing.	The student will question how performance is influenced by society, culture, technology and information processing.
	KINS105	Program Development and Leadership	Critical thinking/communication	Develop and apply knowledge, and exhibit critical thinking and professional written communication skills through assigned graded written projects.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Group Leadership Development	Analyze theories and concepts of group leadership, teaching/leading and age appropriate activities. Developing and apply skills for effective group dynamics which will be demonstrated in a professional graded group presentation.
			Professional leadership skills	Gain an understanding of various leadership roles through observations of professionals, and apply professional leadership skills as measured through a graded leader oriented project
			Program development	Gain understand of programming skills and apply programming skills through the development of a graded multi-purpose sport/ fitness//recreation program.
			Programming concepts and Leadership	Apply rational working knowledge and understanding of programming concepts and leadership criteria through lectures, assigned readings, and class exercises, as measured on essay tests
	KINS140	Health and Fitness	Caloric calculation	Students will be able to determine the number of calories in their meals that come from carbohydrates, proteins, and fats.
			F.I.T.T. principle	Students will be able to create an exercise plan for muscle strength, muscle endurance, flexibility and cardiorespiratory endurance utilizing the F.I.T.T principle.
			Fitness	Students will be able to identify and describe the 5 health related components of fitness.
			Fitness Goals and Objectives	Students will utilize the S.M.A.R.T Goal format (Specific, Measurable, Attainable, Realistic, Timing) and develop appropriate objectives for setting personal and fitness goals.
			Health risks	Students will identify health risks associated with an unhealthy lifestyle.
			Wellness	Students will be able to list and describe the 6 dimensions of wellness and how they can be incorporated into a healthy lifestyle
	KINS141	Introduction to Movement	Analysis of human motion	Perform anatomical and mechanical analysis of human motion
			Anatomical structures	Identify various anatomical structures of the skeletal, nervous, and muscle system
			Provide effective instruction and performance information to individuals involved in physical activities	Provide effective instruction and performance information to individuals involved in physical activities
			Terminology	Master the terminology used to describe body part locations, reference positions, and anatomical directions
	KINS230	Athletic Injury and Illness Prevention	Identify sports trauma	Identify the mechanism, the characteristics, and the body response to sports trauma
			Manage risks	Manage the risks inherent in physical activity through the use of proper training and conditioning techniques, proper nutritional considerations, monitoring environmental conditions, and the application of protective sports equipment
			Procedures for management of sports injuries	Identify procedures necessary for management of sports injuries through emergency care and acute injury care, injury assessment, and the use of therapeutic modalities and exercise in rehabilitation
			Professional development and responsibilities	Identify the professional development and responsibilities of a Certified Athletic Trainer
	KINS232	Athletic Injury and Illness	Anatomy	To identify and become familiar with the anatomy of the foot, ankle, knee, thigh, hip, groin,

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	KINS232	Recognition and Evaluation	Anatomy	shoulder, elbow, wrist, hand, spine, thorax, and head & face.
			Care and follow-up care for specific injuries	To understand immediate care and follow-up care for the specific injuries.
			Functional testing routine	To develop a functional testing routine for return to play for athletic injuries.
			Identify and understand athletic injuries	To identify injuries in everyday athletics and understand what they are and to be able to explain those injuries to the common layperson.
			Identify injuries	To identify specific injuries to the above mentioned aspects of the body.
	KINS234	Preventative Taping Techniques	Applying elastic wraps	Apply elastic wraps to aid in compression of athletic injuries
			Appropriate extremity support	Appropriately support extremities to allow participation after injury
			Appropriate materials	Select appropriate materials for taping and bandaging athletic injuries
	KINS248	Psychology of Sport and Performance and Coaching	Approaches and techniques in applied sport psychology setting	Have developed an understanding of the most utilized approaches and techniques employed in the applied sport psychology setting
			Be able to describe, discuss, implement, and appraise the major theories of psychology within the context of sport and exercise	Be able to describe, discuss, implement, and appraise the major theories of psychology within the context of sport and exercise
			Demonstrate effective interventions and strategies for improving human performance and effectiveness in sport and physical activity	Demonstrate effective interventions and strategies for improving human performance and effectiveness in sport and physical activity.
			Engage in discovery, independent critical thinking and communication of ideas through written, group and applied assignments.	Engage in discovery, independent critical thinking and communication of ideas through written, group and applied assignments.
			Have a familiarization with the topics germane to applied sport psychology	Have a familiarization with the topics germane to applied sport psychology
			Utilize measurement instruments	Be able to describe and utilize measurement instruments involved with studying athletic behavior
	KINS262	Exercise Physiology	Acute and chronic physiological changes that occur in the body in response to exercise stress	Demonstrate knowledge of the acute and chronic physiological changes that occur in the body in response to exercise stress

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Biological work in the human body	Demonstrate an understanding of biological work in the human body
			Body energy systems	Be able to distinguish between the different energy systems in the body and understand each energy system's role in human energy expenditure
			Macro and micronutrients	Be able to distinguish between macronutrients and micronutrients and identify their role in energy metabolism.
			Metabolic processes responsible for powering human movement	Detail the metabolic processes responsible for powering human movement.
			Performance, understanding and interpretation of basic physiological assessment	Demonstrate knowledge in the performance, understanding and interpretation of basic physiological assessment such as indirect calorimetry, muscular fitness and cardiovascular analyses.
			Physiological metabolic processes	Differentiate the physiological metabolic processes that govern human movement and apply each of these processes to physical performance
			Physiological principles of the support systems	Compare and contrast the physiological principles of the support systems of the body and appraise how each system is affected and adapts to exercise.
			Research	Interpret current research and use research techniques to develop an understanding of the importance of research in the study of exercise science
	KINS265	Personal Fitness Training	Case study application	Students will describe and apply evidence based exercise theory, using a periodized model, to a case study presenting challenges in both goal setting and postural distortion.
			Exercise applications	Students will recall and apply foundations of exercise theory and their applications to exercise prescription at an individual level.
			Exercise theory	Students will describe and apply evidence based exercise theory to performance based outcomes inclusive of: <ul style="list-style-type: none"> a. Cardiovascular Training b. Flexibility c. Core d. Balance e. Reactive f. Speed, Agility, and Quickness g. Stability, Strength, and Power h. Periodized Fitness Program Modeling
			Terminology, memorize, identify, and recall	Memorize and recall/label, locate and identify/describe anatomic, musculoskeletal, biomechanical, and physiologic principles specific to human movement.
	KINS268	Fitness Evaluation I: Foundational Assessment	Contraindications to exercise testing	Recognize contraindications to exercise testing in low to moderate risk participants
			Exercise testing protocols	Practice exercise testing protocols utilized in health and fitness evaluations, under the supervision of faculty and laboratory teaching assistants
			Laboratory assessment	Describe, explain, demonstrate, apply and analyze various laboratory assessments specific to muscular strength, anaerobic fitness, aerobic fitness, cardiovascular function, flexibility and

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Laboratory assessment	body composition
			Pre-screening principles	Memorize , recall and employ pre-screening principles for exercise testing
	KINS270	Sports Management	Terminology	Memorize and recall terminology and measurement theory specific to exercise testing
			Assessment	Create pre-determined assessment requirements using knowledge and research gained from class
			Industry issues	Synthesize current issues and problems facing professionals in the sport management industry today through abstract preparation, observations and current issues discussions
			Leadership and communication skills	Develop leadership, group dynamic and professional communication skills by designing and presenting case studies
			Philosophies and principles	Describe and apply philosophies, and principles of sports management through applying lectures, participating in discussion, and passing three essay tests
	KINS275	Nutrition for Sport and Exercise Performance	Macro and micronutrient functions	The student will recall macronutrient and micronutrient functions, reference values, and dietary needs for both normal and special populations.
			Macro and micronutrient recall	The student will be able to name and recall all macronutrients and micronutrients, as well as unique characteristics of each (e.g. caloric value).
			Memorize, recall, and list common nutritional ergogenic aids	The student will demonstrate and examine knowledge of common nutritional ergogenic aids and their application in athletic populations.
			Nutritional theory	The student will apply nutritional theory to an athletic population, presenting the following: <ul style="list-style-type: none"> Description of energy requirements Description of macronutrient ranges Description of micronutrient and hydration ranges Description of feeding strategies
	KINS295	Facility and Program Operations	Experience report	Write a professional report on their experience
			Professional ethics	Have an improved appreciation for understanding of professional work ethics, policies and procedures and patient/client rights and confidentiality
			Professionalism	Have maintained regular appointments with their professor and kept professional quality records of each appointments agenda and outcome
			Record keeping	Be able to maintain daily records of their practical experiences and duties in a professional manner
			Responsibilities	Exhibit an understanding and appreciation of the roles, duties and responsibilities of full-time exercise science professionals
			Strengths and weaknesses	Be able to assess their personal strengths and weaknesses as related to the practical experience
	KINS340	Therapeutic Modalities in Athletic Training	Appropriate therapeutic modality for proper management of various	Determine the appropriate therapeutic modality for proper management of various physical injuries and illnesses.

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	KINS340	Therapeutic Modalities in Athletic Training	physical injuries and illnesses	Determine the appropriate therapeutic modality for proper management of various physical injuries and illnesses.
			Mastery of competencies	Demonstrate mastery of the competencies outlined in the NATA's ?Athletic Training Educational Competencies? pertaining to the use of therapeutic modalities in an athletic training setting
			Perform the proper pre-application, application, and post-application procedures for the selected therapeutic modalities	Perform the proper pre-application, application, and post-application procedures for the selected therapeutic modalities
			Physics, physiological effects, indications, contraindications, and precautions of the various therapeutic modalities in athletic training.	Understand the underlying physics, physiological effects, indications, contraindications, and precautions of the various therapeutic modalities in athletic training.
	KINS344	Kinesiology	Diarthrotic joints	Describe the different types of diarthrotic joints of the body
			Foot abnormalities	Recognize common abnormalities of the foot
			Kinetics concepts	Understand the basic concepts related to kinetics (mass, inertia, force, weight, pressure, volume, density, torque, tension, shear, work, power, vector)
			Manual muscle testing	Perform Manual Muscle Testing techniques for the lower and upper extremities
			Motion of human body	Describe the different types of motion the human body is able to perform
			Movement pattern	Analyze a movement pattern
			Palpate	Palpate various bony and soft tissue landmarks of the spine and extremities
			Posture	Evaluate posture and identify gross posture deformities
			ROM measurements	Perform qualitative and quantitative ROM measurements of the extremities
	KINS346	Therapeutic Exercise in Athletic Training	Determination	3. To appreciate the determination required for patients to return to daily function following injury and/or surgical intervention.
			Rehabilitation	1. To promote in students via lecture and small group experiences the importance of a rehabilitation progression and an understanding of the skills required of the rehabilitation professional
			Skills and knowledge	4. To enhance students rehabilitation skills and knowledge.
			Writing	2. To enhance students writing skills in the documentation of rehabilitation progress
	KINS348	Fitness Evaluation II Laboratory Procedures	Assessment interpretation, statistical	Calculate, interpret, examine, and graphically represent statistical measures of central tendency and regression analysis specific to exercise testing
			Contraindications to	Recognize contraindications to exercise testing in low to moderate risk participants

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			assessment	Recognize contraindications to exercise testing in low to moderate risk participants
			Health and fitness assessment protocol applications	Practice exercise testing protocols utilized in health and fitness evaluations, under the supervision of faculty and laboratory teaching assistants
			Lab skills evaluating physical fitness parameters	Describe, explain, demonstrate, apply and analyze various clinical laboratory assessments specific to muscular strength, anaerobic fitness, aerobic fitness, cardiovascular function, respiratory function, and blood chemistry
			Pre-screening process	Memorize , recall and employ pre-screening principles for exercise testing
			Terminology and measurement theory	Memorize and recall terminology and measurement theory specific to exercise testing
	KINS349	Orthopedic Assessment in Sports Medicine	Medical terminology	Demonstrate knowledge of and proper use of medical terminology
			Neurological assessment	Student will perform neurological assessment to include dermatomes, myotomes, and reflexes for the extremity and spine.
			Orthopedic assessment	Interpret the findings of orthopedic evaluation and form a proper assessment
			Orthopedic evaluation	Conduct a complete orthopedic evaluation to include patient history, observation, girth measurements, ROM measurements, MMT, boney and soft tissue palpations, and stress testing
			ROM assessment	Student will perform qualitative ROM assessment of the extremity and spine
			ROM assessment and goniometer placement	Student will perform quantitative ROM assessment of the extremity and spine and will verbally mention goniometer placement for the ankle, knee, shoulder, elbow, wrist and cervical spine
	KINS358	Research Methods in Exercise Science	Formal Presentation	The student will compose, construct, and present a formal presentation of their work to class, complete with all components appropriate for a review of literature.
			Poster	The student will compose, construct and present an academic poster complete with all components appropriate for a review of literature.
			Research question development	The student will compose and produce a review of literature (specific to their chosen concentration) inclusive of problem statement, selecting, evaluating, organizing and applying peer reviewed evidence to their problem statement.
			Terminology	The student will integrate terminology associated with research methodology into written applications.
			Theory and application	The student will recall, describe, summarize, and restate elements of the scientific method and research methodology developed through a survey of associated text and readings.
	KINS362	Exercise Physiology II	Aerobic and anaerobic training methodologies	Compare, contrast and assess the different training methodologies for aerobic and anaerobic training
			Age-related body changes	Compare and contrast the age-related changes in the body
			Aids for training	Compare and contrast the different special aids to exercise training and performance
			Collaborative and cooperative skills	Develop and enhance collaborative and cooperative skills

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Obesity	Discuss the worldwide scope of over-fatness and obesity
			Physiological adjustments	Identify immediate and long-term physiological adjustments to altitude exposure, heat stress and cold stress
			Professionals in clinical setting	Assess the role of the exercise physiologist and health fitness professional in the clinical setting
			Specific population training	Make recommendations for training methodologies for specific populations
			Training to increase strength	Compare, contrast and assess the different training methodologies used to increase strength
	KINS370	Recreation for the Elderly	Aging concepts and leisure pursuit choices	understand the challenges faced by senior adults in today's society as applied to leisure pursuits
			Program planning and activity implementation	apply appropriate recreation activities in the creation of a program plan and in the provision of activities in a practical setting
			Trend research and application for specified activity categories	demonstrate cognitive awareness and group dynamic efficiency by designing and presenting a workshop on a selected activity area for older adults
	KINS375	Commercial Recreation	Analyze	Analyze real world successes and problems in recreation by completing group work assignments and a group project
			Demonstrate and understanding	Demonstrate knowledge and understanding of commercial recreation concepts through lectures, class discussion and group work.
			Understand and apply	Understanding of and ability to apply both traditional and innovative techniques of financial management, marketing and operations
			Understanding	Understanding of the relationship of business, society and the economy, including the role of the entrepreneur.
	KINS401	Internship I	Be able to recognize and diagnose common orthopedic injuries in the physically active individual.	Be able to recognize and diagnose common orthopedic injuries in the physically active individual.
			Be proficient in Manual Muscle Testing and grading	Be proficient in Manual Muscle Testing and grading.
			Be proficient in performing special tests to the upper & lower extremities and spine.	Be proficient in performing special tests to the upper & lower extremities and spine.
			Be proficient in Range of Motion techniques and measurements with a goniometer	Be proficient in Range of Motion techniques and measurements with a goniometer
			Be proficient in soft tissue palpations for upper & lower extremities as well as the spine.	Be proficient in soft tissue palpations for upper & lower extremities as well as the spine.
			Bony palpations for upper	Be proficient in bony palpations for upper and lower extremities as well as the spine.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			and lower extremities and spine	Be proficient in bony palpations for upper and lower extremities as well as the spine.
	KINS402	Internship II	Medical history	Be able to secure a medical history
			Assist individuals in referrals	Demonstrate their ability to assist and refer individuals appropriately for professional help.
			Clinical assignment	Successfully complete their clinical assignment. It is during these clinical experiences that the athletic training student will also be assessed in the clinical proficiencies as stated in the National Athletic Trainers' Association 4th edition Athletic Training Educational Competencies. It is here that the athletic training student will have several opportunities to apply the skills they have learned in a "real life" decision making environment under the guidance of their clinical instructor.
			Clinical Proficiency	Complete the Clinical Proficiency Verification Document
			Communication	Demonstrate their ability to communicate appropriately with a diversity of individuals.
			Data management tools	Demonstrate their ability to utilize information and data management tools.
			Module books	Complete their Module books
			NATA BOC Certification Examination	Apply to take the NATA BOC Certification Examination
			Preparticipation medical/physical examination	Demonstrate their ability to organize and administer a preparticipation medial/physical examination.
			Professional literature	Interpret basic professional literature.
			Professional presentation	Present a professional presentation to others concerning athletic training
			Resume	Prepare a resume and cover letter for potential employment
			Skills mastery	Assist athletic training students in the mastery of their individual skills while developing a deeper understanding and appreciation of their own skills.
	KINS434	Neurological Basics of Motor Learning	Program development	<ul style="list-style-type: none"> Apply evidence-based theory in the creation of an individualized comprehensive exercise-training program
			Risk stratification	<ul style="list-style-type: none"> Describe evidence-based theory from human anatomy, kinesiology, exercise physiology, and nutrition to the development of exercise programs for people categorized as "low risk" (risk stratification).
			Terms	<ul style="list-style-type: none"> Develop the mastery of terms and definitions specific to exercise application, exercise program development, and the delivery of supervised exercise.
			Theory	<ul style="list-style-type: none"> Apply theory from anatomy, kinesiology, and exercise physiology in the mastery of technical competencies in exercise including cardiovascular training, strength training, and range of motion training.
	KINS440	Exercise Physiology Seminar	Career choices	Develop an understanding of the many career choices available in the Exercise Science field

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Develop oral communication and presentation skills	Develop skills in presenting topics and managing a professional group discussion
			Develop skills in identifying peer-reviewed research journals and articles	Develop skills in identifying peer-reviewed research journals and articles
			Presentation	Demonstrate the ability to organize and present information in a professional type setting
			Research	Develop the ability to critically analyze and interpret research findings
	KINS442	Electrocardiography in Exercise Science	Heart anatomy and electrical conduction of the heart.	Upon completion of the course, the student will have an understanding of basic heart anatomy and electrical conduction of the heart. The student will possess the basic skills to interpret normal and common abnormal ECG.
	KINS444	Exercise Prescription	Assessment and prescription	Prepare and employ assessment techniques to appropriately prescribe and program exercise including: <ul style="list-style-type: none"> a. Anthropometric measures b. Cardiorespiratory fitness c. Muscular fitness d. Flexibility e. Balance
			Periodized exercise program development	Prepare and implement a evidence based exercise program including: <ul style="list-style-type: none"> a. Measurement and evaluation of current health status, body composition and weight b. Manipulation of cardiovascular training variables to elicit specific health and performance related outcomes c. Manipulation of strength training variables to elicit specific health and performance related outcomes d. Manipulation of flexibility training variables to elicit increased tissue elasticity and range of motion
			Pre-screening procedures	Prepare and employ pre-screening techniques to identify relative and absolute contraindications to exercise participation including: <ul style="list-style-type: none"> a. PAR-Q b. ACSM Pre-participation Screen c. ACSM Risk Classification
			Program development and delivery	Plan and assemble an individualized exercise prescription for a low-risk faculty member of LSSU meeting ACSM guidelines for exercise prescription.
			Research	Demonstrate the ability to cognate and articulate current research outcomes in exercise theory
	KINS450	Philosophy of Human Performance and Leisure	Critical thinking	Demonstrate an ability to think clearly and critically when addressing historical interpretation sand philosophical analyses
			Cultural analysis	Describe the interactions of such cultural elements as sport, health care, religion, politics,

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Cultural analysis	and economics, and detail how physical activity is both a cultural text and a potential agent for change, as well as a central role in human development.
			Dualism and holism	Analyze the strengths and weaknesses of two philosophies (dualism and holism) and discuss their implications for kinesiology
			Ethical thinking	Analyze the strengths and weaknesses of three fundamental positions on ethical thinking and discuss ethical implications for kinesiology
			Relationships	Show an appreciation of complementary relationships between the humanities and sciences, and between historical and philosophical study
	KINS452	Allied Health Administration	Be able to create a purchase requisition, policies and procedures manual, facility design	Be able to create a purchase requisition, policies and procedures manual, facility design
			Be able to describe different styles of management	Be able to describe different styles of management
			Emergency Action Plan	Be able to discuss the importance of and to create an Emergency Action Plan
			Purchasing process	Be able to discuss the purchasing process
			Risk Management	Be able to understand basics of Risk Management
	KINS481	Professional Development Seminar	Career development	Students will understand the complexities of career development and searches through research techniques and self-reflection
			Goals development	Develop professional/career goals and objectives that will contribute to a professional portfolio
			Internship	Students will gain a thorough understanding of the internship requirements/contracts, reports, site selection, evaluation processes, and goals and objectives development through lecture and portfolio preparation.
			Resume development	Students will explore resume writing techniques and develop a professional resume and cover letter to be used for internship/job placement.
	KINS482	Administration of Recreation and Leisure Services	knowledge	Students will demonstrate knowledge gained by passing three essay tests
			research, networking, written preparation and design elements	Students will apply their gained knowledge by selecting an approved project which includes research, networking, written preparation and design elements
			specialized areas of administrative techniques	Students will gain additional perspectives on specialized areas of administrative techniques through panel discussions with guest speakers, site visits, involvement with public boards, and in case exercises
	KINS496	Selected Research Topics	Benefits of research	Develop an appreciation of the benefits of research and the research process
			Critical evaluation of research	Develop further ability to critically evaluate one's own research and that of other exercise scientists
			Dissemination and analysis of	Develop the ability to competently disseminate data and analyze data

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			data	Develop the ability to competently disseminate data and analyze data
			Empirical research fundamentals	Understand and be able to explain the fundamental concepts of empirical research
			Empirical research procedures	Understand and be able to explain the specific procedures involved in the conduct of empirical research
			Professional research proposal development/completion	Develop the ability to complete a thorough and professional research proposal
			Research study statistical tools	Be able to choose the correct statistical tools as it pertains to a research study
			Use of scientific method in research	Increase the understanding of the scientific method through the completion of an individual research project
			Value of evidence-based research	Understand the importance and value of evidence-based research and practice as it supports continued professional development and practice
	RECA103	Badminton and Racquetball	Competition	The student will be able to compete in round-robin and double elimination tournaments
			Promotion of physical activity	The student will become aware of these two sports in hopes of promoting physical activity and wanting them to continue to play once the course is complete.
			Rules	The student will be able to identify and establish the rules of Badminton and Racquetball
			Sportsmanship	The student will be able to identify the importance of meeting new students, helping teach and learn from each other, and playing with all different levels of competition.
	RECA105	Bowling	Bowling terminology, safety, basic rules, scoring, and etiquette through practical application	Have learned bowling terminology, safety, basic rules, scoring, and etiquette through practical application
			Will appreciate bowling as a lifetime sport upon completion of the course.	Will appreciate bowling as a lifetime sport upon completion of the course.
			Will be able to demonstrate proper mechanics required for properly executing the various shots needed in bowling	Will be able to demonstrate proper mechanics required for properly executing the various shots needed in bowling
	RECA106	Backpacking	Appropriate clothing	Select appropriate clothing for a backpacking trip
			Backpacking trip	Complete a 2 day, 12 mile backpacking trip
			Identify components of equipment	Identify components and qualities of good, comfortable, durable, light weight backpacking equipment
			Map reading	Identify key landmarks on a map and follow a determined route
			Planning meals	Plan meals for a 2 day trip and provide a recipe appropriate for a backpacking meal
			Safety, trail management,	Utilize and follow appropriate safety practices and trail management techniques,

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			sanitation, LNT practices	demonstrate sanitation and LNT practices
			Techniques	Utilize comfortable and effective travel and hiking techniques
	RECA107	Canoe Techniques	Appropriate clothing	Be able to know how to choose the appropriate clothing for paddling
			Be able to assist with tip over rescue	Be able to assist with tip over rescue
			Demonstrate paddle strokes and assisted rescues	Be able to demonstrate paddle strokes and assisted rescues
			Identifying paddle, boat anatomy, strokes	Be able to identify paddle and boat anatomy, and paddle strokes
			Understand the basic design of canoe equipment	Understand the basic design of canoe equipment
	RECA109	Rock Climbing and Rappelling	Climb and Rappel safely	Climb and Rappel safely
			Commands and vocabulary	Use the climbing commands and vocabulary
			Identify safe climbing equipment	Identify components and qualities of safe and appropriate climbing equipment
			Knots and techniques	Use appropriate knots and techniques when working with a climbing rope
			Setting up a safe climbing site	Set up a safe site for climb/rappelling
			Tie a safe sit harness	Tie a safe sit harness for climbing/rappelling from 1 inch tubular
	RECA110	Golf	Demonstrating proper mechanics	Students will be able to demonstrate proper mechanics required for putting, chipping, pitching and the full swing through practice and practical application
			Lifetime golf appreciation	Students will appreciate golf as a lifetime sport upon completion of the course
			Terminology, safety, rules, scoring, etiquette	Students will have learned golf terminology, safety, basic rules, scoring, and etiquette through practical application
	RECA114	Self Defense	Construction of a more self assured student who can avoid most conflict.	Construction of a more self assured student who can avoid most conflict.
			Student recognition of physical, emotional, spiritual and legal health.	Student recognition of physical, emotional, spiritual and legal health.
			Understanding of positioning, kinesics, proxemics, and para-verbal communications during conflict.	Understanding of positioning, kinesics, proxemics, and para-verbal communications during conflict.
			Understanding the basics of Self Defense	Understanding the basics of Self Defense
	RECA115	Tai Chi	Basic understanding of qigong	Participants will acquire a basic cognitive understanding of qigong
			Become familiar with some	Participants will become familiar with some basic qigong sets

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			basic qigong sets	Participants will become familiar with some basic qigong sets
			Participants will acquire a basic cognitive understanding of tai chi	Participants will acquire a basic cognitive understanding of tai chi
			Tai Chi Set	Participants perform in a group setting the most commonly practiced set of 24 forms acquiring a basic cognitive understanding of the tai chi and qigong
	RECA119	Cross Country Skiing	Become familiar with terms associated with cross country skiing	Become familiar with terms associated with cross country skiing
			Demonstrate different skills associated with cross country skiing ; appropriate clothing selection, fitting equipment	Demonstrate different skills associated with cross country skiing ; appropriate clothing selection, fitting equipment
			Demonstrate improved proficiency in cross country skiing	Demonstrate improved proficiency in cross country skiing
			Demonstrate mastery of cross country skiing with control and being able to turn/stop at the desired time and in the desired place	Demonstrate mastery of cross country skiing with control and being able to turn/stop at the desired time and in the desired place
			Demonstrate the application ethical and safety conscious behavior applicable to cross country skiing	Demonstrate the application ethical and safety conscious behavior applicable to cross country skiing
	RECA120	Downhill Skiing and Snowboarding	Demonstrate improved proficiency in downhill skiing and/or snowboarding	Demonstrate improved proficiency in downhill skiing and/or snowboarding
			Demonstrate mastery of skiing/boarding with control and being able to turn/stop at the desired time and in the desired place	Demonstrate mastery of skiing/boarding with control and being able to turn/stop at the desired time and in the desired place
			Ethical and safety conscious behavior	Demonstrate the application ethical and safety conscious behavior applicable to alpine sports
			Skills	Demonstrate different skills associated with alpine sports i.e.; entering the chair lift, exiting the chair lift, appropriate clothing selection, fitting equipment
			Terminology	Become familiar with terms associated with the respective alpine sport the student has selected to pursue
	RECA125	Tennis	Appreciate the sport	Be able to appreciate the sport from a fans perspective
			Grips	Be able to use different grips

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Scorekeeping	Be able to keep score
			Shots	Be able to hit different shots
			Spins	Understand how to hit different spins
			Understanding areas of the tennis court	Be able to list the different areas of the tennis court
			Use of different shots	Be able to describe how different shots are used
	RECA127	Volleyball	Basic rules	To understand the basic rules involved in the game of volleyball through reviewing and implementing them into drills and scrimmaging
			Basic Skills	To learn and demonstrate the basic skills of passing, hitting, blocking and digging associated with the game of volleyball through in-class drills and scrimmaging
			Game systems	To recognize different game systems utilized in the game of volleyball through drills designed to initiate offensive and defensive systems
			Sport appreciation	To appreciate volleyball as a lifelong activity through fun games and in-class activities
			To have fun	To have fun
	RECA129	Basketball	Drills	Learn drills that will help to improve the student's abilities on the basketball court
			Fundamentals	Learn the proper fundamentals of the sport of basketball
			Rules and terminology	Learn the rules, regulations and terminology associated with the sport of basketball.
			Strategies	Learn strategies associated with the sport of basketball
	RECA130	Intercollegiate Sports Skills	Intercollegiate	It is historically recognized that students participating in intercollegiate sports gain additional benefits (opportunity to hone or further develop sport specific skills, continuous required conditioning for overall fitness gain, leadership opportunity, advanced group dynamics, social, and public relations skill development) through an intensive semester long training, practice, playing and travel schedule which can be equated to activity participation.
	RECA150	Individualized Physical Fitness	Develop and stick to a personal fitness routine	Develop and stick to a personal fitness routine
			Establish baselines	Establish physical fitness baselines and end of the semester levels by completing pre and post assessments
			Goal setting	Practice goal setting by developing short and long term goals and monitoring them throughout the semester
	RECA151	Jogging and Walking for Fitness	Establish a fitness goal	The student will create a fitness goal and strive to complete it by end of term. Ex: Completing a certain distance, Completing a distance in a certain time, weight loss
			Establish a warm-up and down routine	The student will establish a consistent warm-up and down routine through class discussion
			Establish baseline cardiovascular fitness levels	The student will establish baseline cardiovascular fitness levels and measure their improvement by the end of the course through fitness testing
			Goal setting	The student will be given the opportunity to establish a lifestyle committed to personal health through goal setting and maintaining a training notebook
			Understanding ACSM guidelines	The student will understand the ACSM guidelines for aerobic exercise prescription

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	RECA153	Weight Training	Goal setting	The student will be able to identify and monitor weight lifting and general health goals by creating three goals in which they will assess at the end of the semester
			Strength assessment	The student will be able to monitor components of health related physical fitness progression by completing a pre, mid, and post semester strength assessment
			Technical skills	The student will acquire the technical skills necessary to employ proper lifting technique by way of in-class demonstration and utilizing at least 30 minutes of in-class time to resistance train
			Terminology and knowledge	The student will learn basic weight lifting terminology and the knowledge necessary to apply proper rest time, sets, and repetitions by through in-class discussions and practical application
	RECA154	Yoga	Alignment principles	Demonstrate knowledge and understanding of alignment principles
			Benefits	Understand the benefits of each pose
			Breathing and relaxation	Use various breathing techniques and methods of relaxation
			Focus and self-awareness	Increase focus and self-awareness as a result of practice
			History	Provide basic information on the origin, history and philosophy of yoga
			Home practice	Put together a simple sequence of poses for effective home practice
			Identify poses	Identify basic yoga poses by Sanskrit and English names
			Pose anatomy	Understand simple anatomy as related to the yoga poses
			Techniques, postures	Demonstrate techniques for moving into, holding, and coming out of basic yoga postures and variations
	RECA173	Social Dance	Correctly and effectively partner more than one student	Correctly and effectively partner more than one student
			Dance floor etiquette	Use proper etiquette on the dance floor
			Dance style	Identify and demonstrate each dance style with a partner to music
			Present each dance before an audience	Present each dance before an audience
			Terminology	Describe dance steps and effectively use proper dance terminology
	RECA174	Aerobic Dance	Body mechanics and techniques	Understand safe and appropriate body mechanics and techniques for aerobic exercise
			Cardiovascular, coordination, endurance	Improve cardiovascular, body coordination and improve muscular endurance
			Elements of aerobic exercise	Understand the elements of an aerobic exercise session including proper warm up, aerobic portion, and cool-down
	RECA175	Step Aerobics	Cardiovascular	Improve cardiovascular, and become more in tune with your body and how it moves to choreographed music
			Elements of aerobic exercise	Understand the elements of an aerobic exercise session including proper warm up, aerobic portion, and cool-down
			Mechanics and techniques	Understand safe and appropriate body mechanics and techniques for aerobic exercise

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	RECA180	Beginning Skating	Fitness	<ul style="list-style-type: none"> To promote health and physical fitness
			Fun	<ul style="list-style-type: none"> To provide a fun and safe skating experience for the beginner as well as the more advanced skater
			Improvement	<ul style="list-style-type: none"> This course is aimed to help students who want to learn to skate or improve their skating abilities
			Skills	<ul style="list-style-type: none"> To enable all students to achieve the skills necessary to either ice skate for fun the rest of their lives or to move competently into a more advanced level of ice skating in their personal life.
			Techniques	<ul style="list-style-type: none"> To teach correct technique of the simple basic elements of ice skating
	RECA190	Aquatic Fitness	Establish a consistent aquatic fitness routine to improve strength, flexibility and cardiovascular fitness	Establish a consistent aquatic fitness routine to improve strength, flexibility and cardiovascular fitness
			Establish a consistent warm-up and cool-down routine through class demonstrations and readings	Establish a consistent warm-up and cool-down routine through class demonstrations and readings
			Fitness testing	Measure their improvement in cardiovascular fitness through fitness testing
			Identify the physical, social, cognitive, emotional, and spiritual benefits of consistent physical activity	Identify the physical, social, cognitive, emotional, and spiritual benefits of consistent physical activity
	RECA194	Scuba	Safety	Show an understanding of the theory required to participate safely in the open water training dives and to continue to scuba dive in a safe manner
			Scuba skills	Demonstrate all scuba skills required for successful completion of the confined water training sessions
	RECA195	Beginning and Advanced Beginning Swimming	Effectively and efficiently swim all the competitive swim strokes	Effectively and efficiently swim all the competitive swim strokes
			Effectively float on both your front and back	Effectively float on both your front and back
			Learn to swim on the front, back and side	Learn to swim on the front, back and side
			Safely learn to enter and Exit the water	Safely learn to enter and Exit the water
	RECA210	Lifeguarding	Rules, regulations,	Learn the rules, regulations and terminology at the LSSU pool

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	RECA210	Lifeguarding	terminology	Learn the rules, regulations and terminology at the LSSU pool
			Stroke fundamentals	Learn the proper stroke fundamentals
			To receive American Red Cross CPR and First Aid for the Professional Rescuer	To receive American Red Cross CPR and First Aid for the Professional Rescuer
			Water rescue	Learn strategies for water rescue
	RECS101	Introduction to Recreation and Leisure Services	Be able to identify and discuss the benefits available to special populations through recreation, and identify various organizations and agencies which specifically serve these populations	Be able to identify and discuss the benefits available to special populations through recreation, and identify various organizations and agencies which specifically serve these populations Quiz #2 Final Exam
			Be able to identify and explain the influence of various historical events on the evolution of parks, and the leisure service movement	Be able to identify and explain the influence of various historical events on the evolution of parks, and the leisure service movement Quiz #1 Midterm
			Be able to identify specific professional organizations which serve various recreation professionals	Be able to identify specific professional organizations which serve various recreation professionals Final Exam Abstract
			Be able to identify the specific recreation providers and the services they provide within public, private and not-for-profit agencies and organizations	Be able to identify the specific recreation providers and the services they provide within public, private and not-for-profit agencies and organizations Quiz #2 Final Exam
			Recreation goods/service impacts; issues and trends; career goals; job postings/websites; publications	Be able to describe how the production of recreation goods and services impacts the region (local, state and federal) economically Final Exam A.Be able to identify and discuss contemporary issues and future trends in recreation and leisure Final Exam B. The student will be able to identify and discuss their professional career goals. Goal Paper C. The student will be able to locate various job posting bulletins and web sites which are specific to their chosen careers.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Recreation goods/service impacts; issues and trends; career goals; job postings/websites; publications	Job Paper D. The student will read various professional publications related recreation Abstract
			Theories / philosophical concepts of recreation and leisure	At the conclusion of this course, the student will: 1.Be able to discuss, from a professional perspective, various theories, and philosophical concepts associated with recreation and leisure Quiz #1 Midterm
	RECS220	Methods in Arts & Crafts	Arts and Crafts Program Development	2. understand factors and processes for program planning in arts and crafts by developing an actual program(group project) or special event for a selected setting and clientele which can be used in a portfolio and for a future resource and be evaluated.
			Cognitive understanding and application of contributions, importance, and value of arts and crafts programs	1. discover and recognize the integral part arts and crafts play in the wide scope of recreation, leisure, early childhood and therapeutic services through lectures, assigned readings, discussions, observations, and passing two essay tests.
			Skill development and appreciation	4. develop individual arts and crafts skills and appreciation by participating in the teaching labs.
			Teaching/Leading an arts and crafts medium	3. gain actual experience in instructional techniques by researching, planning, and teaching a specific arts and crafts medium in class and be evaluated.
	RECS262	Outdoor Recreation	Define term Outdoor Recreation	Define the term Outdoor Recreation as it is defined among Land Managers
			Discuss issues associated with outdoor recreation	Discuss the salient issues associated with outdoor recreation.
			History and goals	Explain the history of the development, and the goals affiliated with: 1. Outdoor education 2. Environmental Education 3. Experiential Education 4. Interpretation 5. Organized Camping 6. Outdoor Recreation for Special Populations 7. Adventure Programming
			Interpretive/outdoor educational experience	Develop, organize, and teach an interpretive/outdoor educational experience
			Professional organizations	Identify the primary professional organizations affiliated with the above listed disciplines
			Proficiencies in Outdoor Living Skills	Demonstrate or discuss proficiencies in Outdoor Living Skills which include: 1. Using a Protractor compass and orienting it to a map 2. Building a fire pit, sump hole and personal disposal pit according to LNT practices 3. Backcountry first aid

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Proficiencies in Outdoor Living Skills	4. Shelter construction 5. Weather signs
			Residential outdoor recreation experience	Participate in a residential outdoor recreation experience
	RECS280	Readiness in Games, Activities and Sports	Cognitive function of human growth and development	Be able to demonstrate knowledge of cognitive function as it relates to human growth and development
			Emotional function as it related to human growth and development	Be able to demonstrate knowledge of emotional function as it relates to human growth and development
			Identify component parts	Be able to identify "dissect" and identify component parts (basic movement patterns, fundamental skills, entry level competencies) necessary to engage in various recreational, sport, and exercise protocols
			Movement patterns and skills	Be able to identify progressively more complicated movement patterns and skills (lead up activities) necessary for mastery of various recreational, sport and exercise protocols
			Physiological functions of the human body	Be able to demonstrate knowledge of various physiological functions of the human body as they relate to human growth and development.
			Social function as it relates to human growth and development	Be able to demonstrate knowledge of social function as it relates to human growth and development
	RECS295	Practicum	Academic and related skills	Students will apply academic and related skills in a professional setting enhancing their career related experience.
			Communication, objectivity, problem solving, group dynamics	Demonstrate improvement with communication, objectivity, problem solving and group dynamics
			Mission, vision, goals, objectives, development	Gain a thorough understanding of the program mission, vision, goals and objectives, and development
			Personal professional performance	Demonstrate improvement in expected personal professional performance
			Professional relationship	Develop a professional relationship with their supervisor, staff, and participants
	RECS360	Facilitation and Interpretation Techniques	Attend an Outdoor Education center	The student will have attended an Outdoor Education Center and roll play both a participant and a facilitator for that course.
			Facilitate a Field Day Experience	The student will have facilitated a Field Day Experience for a group of Elementary School children
			Facilitating a Problem Solving Activity	The student will be familiar with standard methods of Facilitating a Problem Solving Task/Outdoor Activity (Initiative) according to the current methods practiced in the field today
			Provide an interpretive experience using Six Principles of Interpretation	The student will be able to provide an interpretive experience that incorporates the Six Principles of Interpretation
			The student will be able to	Student will be able to list the respective component parts of The Contract and Challenge by

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			explain "the Contract" and "Challenge by Choice"	Choice and explain how these methodologies might be used to facilitate the participation of group members
			Tilden's Six Principles of Interpretation	The student will be familiar with and able to explain Tilden's Six Principles of Interpretation
			Visit a State or National Park	The student will have visited a State or National Park and met with the respective Interpreter at that site.
	RECS362	Land Management for Recreation Purposes	Develop an outdoor recreation land management plan	The student will have developed an outdoor recreation land management plan for an existing land mass
			Federal agency land management jurisdictions	The student will be aware of federal agencies that have management jurisdiction over land masses which provide outdoor recreation opportunities
			Identify current issues relative to managing lands and outdoor recreation	The student will be able identify current issues relative to managing lands and outdoor recreation opportunities
			Key individuals' contribution to creation of outdoor recreation land masses	The student will be familiar with key individuals and their contribution to the creation of outdoor recreation land masses and the subsequent management goals and objectives
			Outdoor recreation land management methods and procedures	The student will be able to identify current methods and procedures utilized in outdoor recreation land management
			Past and present management concepts	The student will be familiar with past and present management concepts and become familiar with their application
			Policy evolution	The student will have identified policy evolution relative to emerging social, political, and environmental issues
			Understand cultural and political history and philosophy of agencies	The student will develop an understanding of the cultural and political history, and philosophy of these agencies relative to recreation and land management
	RECS365	Expedition Management	Adventure programming concepts	Discuss aspects of adventure programming concepts, including educational theories, leadership strategies, safety concerns, risk management, group and individual behaviors, facilitation goals and techniques, ethics and professional perspectives.
			Decision making	Make Decisions! This course will greatly emphasize decision making. The students will be expected to make the majority of the decisions affecting the expedition. The course will provide the background through class discussion, guest speakers, assigned readings and lecture presentation.
			Plan a back country or wilderness trip of at least 10 days	Completely plan and complete a back country or wilderness trip of at least 10 days in duration. This planning will include: liability concerns, first aid and safety, search and rescue, and evacuation plans, meal planning and nutrition, transportation, route planning, map acquisition, equipment purchasing and maintenance, repair kits, outdoor ethics and courtesies, insurance, budget, developing a written itinerary, preplanning and debriefing sessions.
			Values of initiative games and activities	Identify the potential values associated with Initiative games and activities

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	RECS367	National Parks, National Monuments and National Culture	Current value of Parks	to determine current value of parks relative to national culture, tradition and identity
			determine personal impact of Parks	The student will identify the personal value that they place on the existence of Parks
			Historic value of Parks	To determine the historic value of parks relative to national culture, tradition and identity
			Parks project	The student will become involved in a project which supports the existence and or continece of a park
			To Identify what a "Park" is and determine the social,economic, cultural, spiritual znd emotional components that result from the creation of a park	To be able to define what a park is and discuss the social, economic, cultural and emotional components affiliated with the concept of a park
			Visti a National Park	The class will visit a National Park
	RECS390	Recreation Leader Apprenticeship	Final report	Students will experience reflection, adaptation, and the value of a leader apprenticeship by preparing a final report on their experience and submitting it to their university supervisor with all completed requirements.
			Organizational methods	Students will learn class/event/sport organizational methods through observation, planning, and implementing specific supervised tasks as deemed appropriate by the supervisory teacher/leader/coach.
			Planning, implementing and evaluation	Students will learn the importance of planning, implementing and evaluation by completing a minimum of two complete individual instructional sessions which include: developing a written lesson plan, implementing the lesson, and submitting a written self evaluation, and being evaluated by their supervisor.
			Professional demeanor	Students will learn and apply professional dress, communication, and leadership through out the scheduled experience.
	RECS397	Recreation Studies Junior Research Seminar	Purpose and function of the IRB	The student will be able to explain the purpose and function of the IRB
			Research hypothesis	The student will be able to write a research hypothesis and research questions
			Research proposal first chapter	The student will write the first chapter of a research proposal
			Sample size and composition	The student will be able to explain considerations for obtaining a appropriate sample size and composition
			Scientific inquiry	The student will be able to explain the process of scientific inquiry
			Well designed implemented study	The student will be able to discriminate between a well designed and implemented study and a study which is not well designed
	RECS435	Research in Recreation and Leisure Sciences	Application of the scientific method	Demonstrate the application of the scientific method as a means of acquiring information.
			Assemble first three chapters of research project	Identify and initiate a worthy study, and assemble the first three chapters of a research project specific to the identified problem

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			Common Sources of Error and Threats to Validity	The student will be able to list and explain common sources of error and threats to validity affiliated with scholarly research
			Instrumentation	The student will be able to identify and evaluate different methods of obtaining data
			Methodologies	Identify various research methodologies and to explain their respective strengths and weaknesses.
			Receive approval from the IRB	The students gathering their data during the summer will have received approval from the IRB, prior to the end of the semester, to conduct their research The students not gathering their data during the summer will have initiated their IRB application
			Sampling	The student will be able to identify and explain different sampling methodologies
			Statistics	The student will be able to determine which type of statistical procedure would be appropriate for the type of study involved
			Submit an IRB application	The student must submit an IRB application for review by the university IRB if they intend to gather their data during the summer. All students will eventually need to submit an IRB application to the IRB committee. For this class, all students will have initiated this process.
	RECS437	Recreation Studies Senior Research Seminar	Approved research methodology	Be able to follow an approved research methodology to it's completion
			Interpret data analysis from statistical package	Be able to interpret the data analysis that the computer statistical package produces.
			Presentation	Student will provide a Poster presentation of their research
			Provide recommendations for further study relative to their research topic.	Be able to provide recommendations for further study relative to their research topic.
			Statistical analysis program use	Be able to enter data into a computer based statistical analysis program and utilize that program to complete the analysis
			Write chapters 4 and 5 of research	Be able to write a presentation of data and a discussion of data (chapters 4 and 5) specific to the student's selected research.
	RECS450	Philosophy of Human Performance and Leisure	become familiar with prominent thinkers and advocates affiliated with different disciplines and endeavors	students will submit papers which reflect their thoughts on the respective thinkers and their philosophies
			definitions and terms relative to philosophy	student will be able be come familiar with the various terms and be able to discuss the related concepts
			engagement	students will actively participate through serving as discussion leaders and discussion participants
			studente will explore contemporay phisopical thinkers and their respective ideas	student will be able to engage in discussions relative to the various philosophies
	RECS492	Internship	Individualized	student will work with faculty advisor to identify and secure an appropriate internship

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	RECS496	Selected Research Topics	Apply skills in capstone experience	Apply time management, written communication skills, and research ability in a capstone experience
			Develop and define a purpose	Develop and define a purpose for the selected research to be approved by their advisor
			Expand student knowledge	Expand their knowledge on a specialized topic of interest through selected readings, interviews, observations, data analysis, and survey results to a specialized topic of interest
			Presentation/professional career setting	Be able to apply the independent research through a presentation or in a professional career setting if taking the course for 3 credits.
TheCourses - Language Studies: CHIN, FREN, JAPN, LING, SPAN	CHIN151	First-Year Chinese I	Culture	Describe Chinese cultural and social aspects and conventions.
			Grannar	Apply grammatical rules in oral and written Chinese
			Language Skills	Discuss real-life situations in Chinese.
			Sound System	Explain and apply Chinese Pinyin (the sound system)
			Vocabulary	Know and produce over 200 words and expressions in Pinyin and characters
	CHIN152	First-Year Chinese II	Culture	Compare and contrast Chinese cultural and social aspects and conventions with those of the United States.
			Language Skills	Discuss real-life situations in Chinese
			Vocabulary and Grammar	Apply grammatical rules and choose appropriate words in written and oral communication
	CHIN251	Second-year Chinese I	General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
	CHIN252	Second-year Chinese II	General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
	FREN151	First Year French I	Proficiency	Use elementary vocabulary and grammar rules in oral and written communication on a general non-abstract topic, such as their lives, relating facts.
	FREN152	First Year French II	Proficiency	Use intermediate vocabulary and grammar rules in oral and written communication on a general non-abstract topic, such as their lives, relating facts.
	FREN251	Second Year French I	General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
	FREN252	Second Year French II	General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
	NATV202	Second-Year Ojibwe Conversation II	General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
	SPAN161	First-Year Spanish I	Conversation	Students will manipulate and create original responses during a sustained conversation in Spanish.
			Narratives	Students will apply knowledge of the present indicative, the present progressive, and the preterite in a simple narrative.
			Vocabulary	Students will understand textbook vocabulary and use it in a meaningful context.
	SPAN162	First-Year Spanish II	Conversation	Students will manipulate and create original responses during a sustained conversation in

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	SPAN162	First-Year Spanish II	Conversation	Spanish using more complex structures and tenses and expanded syntax.
			Narratives	Students will apply knowledge of multiple tenses in both the indicative and the subjunctive mood.
			Vocabulary	Students will understand additional thematic vocabulary and use it in a meaningful context.
	SPAN261	Second-Year Spanish I	Conversation	Sustain a ten-minute conversation in Spanish on common textbook topics or readings
			General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
			Narratives	Compose sentences and narrate events in multiple verb tenses demonstrating knowledge of Spanish syntax
			Readings	Compose responses to comprehensive questions based on the cultural readings contained in the text
			Vocabulary	Use more advanced textbook vocabulary in a meaningful context
	SPAN262	Second-Year Spanish II	Comprehension	Compose responses to comprehensive questions based upon more advanced textbook readings
			General Education - Humanities	Analyze, evaluate, and explain human aesthetics and its historical development
			Narratives	Narrate events through the use of multiple tenses in both the indicative and the subjunctive mood
			Short Stories	Demonstrate knowledge of the authors and short stories covered in class
			Vocabulary	Use textbook vocabulary, including expanded use of difficult parts of speech, in a meaningful context
	SPAN301	Study Abroad	Aesthetics and History	Students will understand and demonstrate an appreciation for the archaeological, historical, and cultural importance of a Spanish-speaking country.
	SPAN361	Advanced Spanish Grammar	Grammar	Demonstrate a mastery of the grammar points that are appropriate for third year students
			Narration	Narrate complex events in a mixture of both the indicative and subjunctive mood
	SPAN362	Advanced Spanish Composition	Analytical Skills	Students will demonstrate analytical skills in their approach to a better understanding to a Spanish narrative.
			Documentation	Students will understand how to properly format and document their work in accordance with MLA guidelines and will create documents consistent with that knowledge.
			Reading & Comprehension	Apply a wide variety of reading skills to narrative texts in Spanish, including primary and secondary
			Use of Sources	Find and evaluate reliable sources, including scholarly sources, and analyze, incorporate, and synthesize those sources
			Writing Process	Demonstrate recursive strategies for, prewriting, drafting, revising, editing, and proof reading, including the use of collaborative revision and multiple drafts that lead to a rhetorically complex draft.
	SPAN490	Topics in Hispanic Literature	Research and Writing	Demonstrate the ability to write a research paper in the Spanish language with MLA documentation.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
TheCourses - Mathematics and Computer Science: CSCI, MATH	CSCI101	Introduction to Microcomputer Applications	CSCI101 Course Assessment Report	Introduction to Microcomputer Applications (2,2) 3 The study of a selection of contemporary microcomputer applications, including operating systems concepts, word processing, spreadsheets, database management systems, and the Internet and World Wide Web. Brief survey of other applications, such as presentation graphics, multimedia usage and desktop publishing
	CSCI103	Survey of Computer Science	CSCI103 Course Assessment Report	Survey of Computer Science (2,2) 3 An introduction to the field of computer science for computer science majors. Microcomputer applications, history of computing, computer networks and the Internet, programming, hardware, theory of computation, artificial intelligence.
	CSCI105	Introduction to Computer Programming	CSCI105 Course Assessment Report	Introduction to Computer Programming (2,2) 3 An introductory course in computer programming in a graphical development environment, intended for students with no prior computer programming experience. Arithmetic, control structures and simple data structures. Sound, graphics and animation.
	CSCI106	Web Page Design and Development	CSCI106 Course Assessment Report	Web Page Design and Development (2,2) 3 Topics include planning a web site starting with domain name registration and selection of hosting service providers, creating web page using HTML/XHTML and cascading styles sheets; validating web pages; using web authoring tools such as Dreamweaver; publishing web pages to a remote web server, introductory web site design, including best practices for inserting graphics, page layout, building the web site navigation and user interface, integration of third-party and Web 2.0 tools and software, implementing web and accessibility standards, ethical and legal issues such as copyright and trademarks
	CSCI107	Web Graphic Design and Development	Course Assessment Report	Web Graphic Design and Development (2,2) 3 Apply graphic design, typography, color theory, and image composition to enhance a web site. Create web graphics using Adobe Photoshop and Microsoft Expression Design. Insert graphics into web pages and publish web sites using Adobe Dreamweaver and Microsoft Expresssion Web.
	CSCI121	Principles of Programming	Course Assessment Report	Principles of Programming (4,0) 4 A broad-based introduction to computer programming, using the C++ programming language and basic operating system features as vehicles. Basic programming principles, including built-in and programmer-defined data, operators, functions and control structures. Introduction to classes and dynamic memory allocation. Text manipulation and parsing, binary files, and exception handling. C-style input and output. Applications will be drawn from across the discipline of computer science.
	CSCI163	Troubleshooting and Repair of Personal Computers	Course Assessment Report	CSCI163 Troubleshooting and Repair of Personal Computers (2,2) 3 A basic introduction to the architecture, installation, maintenance, troubleshooting and repair of personal computers. The student will learn elementary principles of electronics, magnetism and interference as they relate to computer repair and operation. The disassembly and upgrading of a personal computer will be covered in the laboratory as well as the use of diagnostic hardware and software.
	CSCI201	Data Structures and Algorithms	Course Assessment Report	Data Structures and Algorithms (4,0) 4 An introductory course in data structures and algorithms, with an emphasis on abstraction, implementation and analysis. Advanced class concepts, including operator overloading, Linked lists, stacks, queues, trees and binary trees. Separate compilation and third-party

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	CSCI201	Data Structures and Algorithms	Course Assessment Report	libraries. Application of various data structures to problems selected from the spectrum of computer science topics.
	CSCI207	Developing Multimedia and Rich Interactive Web Sites	Course Assessment Report	Developing Multimedia and Rich Interactive Web Sites (2,2) 3 Transform static web pages into rich media-based interactive web applications. Apply graphic design and marketing principles to design and produce audio and video components for both consumers and commercial web applications. Using Adobe Flash and Microsoft Silverlight, build rich interactive web applications. Publish web sites to a web server.
	CSCI211	Database Applications	Course Assessment Report	Database Applications (3,0) 3 An introductory course in database design and implementation, using microcomputer-based relational database software. Single and multi-table databases, forms and reports, query processing, data import and export, and database-related programming.
	CSCI221	Computer Networks	Course Assessment Report	Computer Networks (2,2) 3 An introduction to the basic principles of computer networks and communication, exploring both the hardware necessary to support computer networks and the software needed to utilize those networks. Basic network topologies, network protocols, and local and wide-area networks.
	CSCI223	Routers and Switches I	Course Assessment Report	Routers and Switches I (2,2) 3 alternate years Principles of Wide Area Networks, IQs, routers, routing protocols and configurations; hands-on training with industry-standard routing and switching equipment.
	CSCI225	Routers and Switches II	Course Assessment Report	Routers and Switches II (2,2) 3 alternate years Routing protocols, virtual LANs, network management, design of LANs and WANs. Students completing this course will be prepared to take the CCNA certification exam.
	CSCI248	Network Operating Systems I	Course Description	CSCI248 Network Operating Systems I (2,2) 3 An introduction to using and administering network operating systems. Students will also be introduced to virtualization of machines, as well as interaction between virtualized machines. Topics include: account setup, basic security, file and device sharing, and maintenance. Course topics will be presented in the context of different network operating systems.
	CSCI263	Managing Computer Security	Course Assessment Report	Managing Computer Security (3,0) 3 This course investigates the various security protection and recovery techniques available for networks and personal computers including security policies, procedures, and requirements necessary for protecting the integrity of information stored on networks, workstations, and other computer systems. Other topics include discussions on disaster recovery planning, emergency response teams, threat assessment, detection and remediation of a threat, standards for establishing a security framework, and operations security and production controls
	CSCI275	Web Server Administration	Course Assessment Report	Web Server Administration (2,2) 3 Install and configure a web server; identify the web server administrator role; monitor web server performance and log files; configure file transfer and email services; secure the server. Plan and configure an e-commerce web site
	CSCI281	Introduction to UNIX and Networking	Course Assessment Report	CSCI281 Introduction to UNIX and Networking (2,2) 3 An introduction to the UNIX operating system, shell scripting, and UNIX networking from the

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	CSCI281	Introduction to UNIX and Networking	Course Assessment Report	user's perspective. Topics include basic and intermediate UNIX commands and file structure, regular expressions, BASH/CSH shell scripting, basic UNIX network setup, introduction to UNIX system daemons and networking services. Page 129
	CSCI290	Ind Study: Computer Science	Course Assessment Report	Independent Study in Computer Science (1-4,0) 1-4 Special studies and/or research in computer science for individuals or small seminar groups. Course content to be arranged with instructor and with approval of the department head.
	CSCI291	Computer Science Project	Course Assessment Report	CSCI291 Computer Science Project (4,0) 4 This is a hands-on course where the student is assigned a project at a corporate site. The student is expected to spend at least 8 - 10 hours a week on the project. Topics for the project may include creating a substantial Web site, designing and implementing an application system for a user, modifying and updating an existing software system, or other related projects. The projects will vary each semester.
	CSCI292	Computer Networking Project	Course Assessment Report	Computer Networking Project (4,0) 4 This is a hands-on course where the student is assigned a project in a corporate network setting. The projects will vary each semester to allow students to implement their knowledge to create and maintain a real-world network system. Activities could include the wiring of the network, installing and maintaining users, installing and repairing workstations, maintaining a Novell or Microsoft network, monitoring an NDS tree, and other similar activities. The student is expected to spend at least 8-10 hours per week on the project including hours on site, doing research, and writing weekly report logs.
	CSCI321	Computer Graphics	Course Assessment Report	CSCI321 Computer Graphics (3,0) 3 alternate years An introduction to the generation of graphical images by computer. Survey of common graphics devices. Generation of lines and curves. Representation of two-dimensional objects. Techniques for area filling. Scaling, rotation and translation in two dimensions. Rendering three-dimensional objects by projections. Scaling, rotating and translating in three dimensions. Hidden line and hidden surface detection and removal
	CSCI325	Developing Web Applications with JavaScript and PHP	Course Assessment Report	Developing Web Applications with JavaScript and PHP (2,2) 3 Transform static web sites into dynamic web sites using a combination of client and server-side web programs. Process and validate forms, build interactive web sites, manage web databases and publish web sites to a web server.
	CSCI326	Developing Web Applications with ASP.NET	Course Assessment Report	Developing Web Applications with ASP.NET (2,2) 3 Create and publish web server and web database applications using the Microsoft ASP.net framework; Emphasis on improving performance, security, and isolating business logic from the user interface.
	CSCI341	Discrete Structures for Computer Science	Course Assessment Report	Discrete Structures for Computer Science (4,0) 4 alternate years Formal logic and proof techniques; recursion, recurrence relations and combinational methods; analysis of algorithms; algebraic structures; trees and graphs; Boolean algebra and computer logic; models of computation and formal languages. Emphasis will be on applications to computer science.
	CSCI342	Advanced Programming Techniques	Course Assessment Report	Advanced Programming Techniques (4,0) 4 alternate years Advanced data structures including general trees and graphs. Advanced programming techniques, including: divide and conquer, dynamic programming, greedy algorithms, graph algorithms, balanced trees. Emphasis will also be placed on the software development

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	CSCI342	Advanced Programming Techniques	Course Assessment Report	process, debugging and testing methodologies.
	CSCI348	Network Operating Systems II	Course Description	CSCI348 Network Operating Systems II (2,2) 3 A continuation of using and administering network operating systems. Students will also be introduced to virtualization of servers, as well as interaction between virtualized machines. Topics include: file system and network service management, remote access, security, printing, and disaster recovery. Course topics will be presented in the context of different network operating systems
	CSCI351	Mobile Application Development	Course Assessment Report	Mobile Application Development (3,0) 3 Introduction to the development of applications for smart phones and tablets; using a simulator and provisioning to mobile devices; user interfaces, touch events, data management, and graphics; interaction with camera, accelerometer, and location hardware.
	CSCI371	Multi-Platform App Development	Course Assessment Report	Multi-Platform Application Development (3,0) 3 The design and implementation of applications across multiple platforms, with a goal of a similar or identical code base between versions. The course covers a variety of programming environments, as well as a variety of platforms. Focus will be on comparison between programming languages, as well as the strengths and weaknesses of various programming environments and models for a uni-platform vs a multi-platform approach.
	CSCI411	Adv Database and Project Mgmt	Course Assessment Report	Advanced Database and Project Management (3,0) 3 alternate years Designing and implementing an enterprise-level database. Creating interfaces to database systems from common programming language platforms. Capturing requirements, process modeling, project scheduling, documenting, testing, delivering and maintain a system
	CSCI412	UNIX Network Administration	Course Description	CSCI412 UNIX Network Administration (2,2) 3 Network administration how to and issues for Linux. Installation of a Linux networked system, maintenance and upgrade of a Linux installation, security issues, common scripting languages, system admin tasks, NFS, and mail systems; other UNIXes.
	CSCI415	Computer Org Architecture	Course Assessment Report	CSCI415 Computer Organization and Architecture (3,0) 3 A hardware-orientated introduction to the structure of modern computer systems, emphasizing the role of, and interrelationships between, the various components. The evolution of modern computer systems. Memory organization, peripheral devices and their connectivity. Instruction sets, arithmetic and central processing unit structure. Control unit organization and operation. Alternative computer architectures. Parallel computing for both SMP and MIMD models.
	CSCI418	Senior Project I	Course Assessment Report	Senior Project I (1,4) 3 This course is the first part of the two-part sequence CSCI418/CSCI419. The student will begin a two-semester capstone experience that will include one of the following: a software project; a network implementation; a co-operative education position with an external company; or a research project. The experience must include the fulfillment of customer-generated requirements. The projects/experiences will vary each year to allow students to experience work in a real-world environment.
	CSCI419	Senior Project II	Course Assessment Report	Senior Project II (1,4) 3 The second of a two-part sequence, CSCI419 provides students with the skills necessary for completion of their two-semester capstone experience that will include one of the following:

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	CSCI419	Senior Project II	Course Assessment Report	a software project; a network implementation; a cooperative education opportunity with an external company; or a research project. The experience must include the fulfillment of customer-generated requirements. The projects/experiences will vary each year to allow students to experience work in a real-world environment.
	CSCI422	Network and Computer Security	Course Assessment Report	CSCI422 Network and Computer Security (2,2) 3 An advanced look at common computer and network exploitation techniques in use today. Course emphasis is on how exploits work (both the exploiter's perspective as well as the software faults that allow these exploits to exist), what can be done with the exploits, as well as mitigation and solution techniques for containing the damage to the administered systems.
	CSCI434	Operating Systems Concepts	Course Assessment Report	CSCI434 Operating Systems Concepts (3,0) 3 alternate years Definition and historical development of operating systems. Characteristics of batch, interactive and multiprogramming systems. File systems, processor and memory management. Communication, concurrency, deadlock, protection, parallel and distributed systems. Case studies of modern operating systems.
	CSCI490	Ind Study: Computer Science	Course Assessment Report	Independent Study in Computer Science (1-4,0) 1-4 Special studies and/or research in computer science for individuals or small seminar groups. Course content to be arranged with instructor and with approval of the department head.
	MATH087	Pre-Algebra	Course Assessment Report	MATH087 Pre-Algebra (3,0) 3 Basic operations and problem solving using whole numbers, rational numbers (including decimals, ratios and percents) and integers. Solving problems related to measurement and geometry.
	MATH088	Beginning Algebra	Course Assessment Report	MATH088 Beginning Algebra (3,0) 3 An introduction to algebra, algebraic expressions and solving of elementary equations and inequalities. Manipulation and graphing of equations in two variables as well as solving systems of equations in two variables. Multiplying, factoring and manipulating polynomial expressions. Credit in this course does not apply toward graduation
	MATH102	Intermediate Algebra	Course Assessment Report	MATH102 Intermediate Algebra (4,0) 4 Algebra for students who have not had second-level high school algebra or who need a refresher course in that level of algebra. Real numbers and operations, solving and graphing first degree equations and inequalities, solving systems of equations and quadratic equations, algebra of polynomials, radical and rational expressions and equations, exponential and logarithmic functions.
	MATH103	Number Systems and Problem Solving for Elementary Teachers	Course Assessment Report	MATH103 Number Systems and Problem Solving for Elementary Teachers (3,2) 4 General notions of problem solving and number theory for elementary teachers including sets, functions, numeration systems, and properties and operations of whole numbers, integers, fractions and decimals, and proportional reasoning.
	MATH104	Geometry and Measurement for Elementary Teachers	Course Assessment Report	MATH104 Geometry and Measurement for Elementary Teachers (3,2) 4 Basic notions of geometry for elementary teachers including constructions, congruence and similarity, motion geometry, symmetry and tessellations. Concepts of measurement, coordinate geometry, probability and data analysis
	MATH110	Explorations in	Course Assessment Report	MATH110 Explorations in Mathematics (3,0) 3

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	MATH110	Mathematics	Course Assessment Report	A discovery course in mathematics which explores the varied relationships of mathematics to society and the natural world through application and enrichment. A statistics component is included, and a term project is required. This course satisfies the general education mathematics requirement.
			General Education - Mathematics	Analyze situations symbolically and quantitatively in order to make decisions and solve problems
	MATH111	College Algebra	Course Assessment Report	MATH111 College Algebra (3,0) 3 This course is a study of families of functions through formulas, tables, graphs and words, emphasizing applications in business, life and social science. The function families include linear, polynomial, rational, exponential, logarithmic and power functions. Within these families, topics include problem solving, model creation, solving equations, systems of equations and inequalities, rates of change, graphing, analysis, and interpretation
			General Education - Mathematics	Analyze situations symbolically and quantitatively in order to make decisions and solve problems
	MATH112	Calculus for Business and Life Sciences	Course Assessment Plan	MATH112 Calculus for Business and Life Sciences (4,0) 4 Limits, differentiation, applications of the derivative, integration, application of the definite integral, techniques of integration. Calculus of exponential and logarithmic functions, elementary differential equations, functions of several variables.
			General Education - Mathematics	Analyze situations symbolically and quantitatively in order to make decisions and solve problems
	MATH131	College Trigonometry	Course Assessment Report	MATH131 College Trigonometry (3,0) 3 Basic theory of trigonometric functions and inverse trigonometric functions. Applications include trigonometric equations, plane trigonometry, vectors and complex numbers. Introduction to conic sections. Study of exponential functions and their connection to trigonometry functions, logarithmic functions and applications.
			General Education - Mathematics	Analyze situations symbolically and quantitatively in order to make decisions and solve problems
	MATH151	Calculus I	Course Assessment Report	MATH151 Calculus I (4,0) 4 Limits, continuity and inverse functions. Logarithmic and exponential functions. Differentiation and applications of the derivative. L'Hopital's rule. Inverse trigonometric functions. Integration and the definite integral.
			General Education - Mathematics	Analyze situations symbolically and quantitatively in order to make decisions and solve problems
	MATH152	Calculus II	Course Assessment Report	MATH152 Calculus II (4,0) 4 Applications of the definite integral. Techniques of integration and improper integrals. Infinite series. Conic sections, polar coordinates and parametric equations.
	MATH207	Principles of Statistical Methods	Course Assessment Report	MATH207 Principles of Statistical Methods (3,0) 3 Descriptive statistics, probability distributions (including normal, binomial and chi-square),

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	MATH207	Principles of Statistical Methods	Course Assessment Report	techniques of statistical inference including tests of hypotheses and selected nonparametric tests. (This course is a survey of elementary statistical concepts.)
			General Education - Mathematics	Analyze situations symbolically and quantitatively in order to make decisions and solve problems
	MATH215	Fundamental Concepts of Mathematics	Course Assessment Report	MATH215 Fundamental Concepts of Mathematics (3,0) 3 Elements of set theory, set algebra, cardinality, logic, mathematical induction, methods of proof, functions, relations, equivalence relations.
	MATH216	Discrete Mathematics and Problem Solving	Course Assessment Report	MATH216 Discrete Mathematics and Problem Solving (3,0) 3 Selected topics from discrete mathematics including fundamental counting principles, recurrence relations and an introduction to graph theory. A strong emphasis is placed on fundamental problem-solving techniques
	MATH251	Calculus III	Course Assessment Report	MATH251 Calculus III (4,0) 4 Three-dimensional space, vectors, vector-valued functions, partial differentiation, multiple integration, topics in vector calculus.
	MATH261	Introduction to Numerical Methods	Course Assessment Report	MATH261 Introduction to Numerical Methods (3,0) 3 alternate years Floating point representation of numbers and floating point arithmetic. Survey of numerical methods for solving a wide variety of common mathematical problems, including solution of a single non-linear equation, solution of a system of linear equations, matrix inversion, numerical integration, function approximation, interpolation. Emphasis will be on the actual computer implementation of common algorithms for solving these problems.
	MATH290	Independent Study in Mathematics	Course Assessment Report	MATH290 Independent Study in Mathematics (1-4,0) 1-4 Special studies and/or research in mathematics for individuals or small seminar groups. Course content to be arranged with instructor and with approval of the department head.
	MATH300	Special Topics in Mathematics	Course Assessment Report	MATH300 Special Topics - content will change with course offering.
	MATH305	Linear Algebra	Course Assessment Report	MATH305 Linear Algebra (3,0) 3 alternate years An introduction to matrix algebra, vector spaces and linear transformation, including applications to the natural and social sciences.
	MATH308	Probability and Mathematical Statistics	Course Assessment Report	MATH308 Probability and Mathematical Statistics (3,0) 3 An introductory course in probability and mathematical statistics. Probability, probability distributions, mathematical expectation, moment generating functions and the Central Limit Theorem.
	MATH309	Applied Statistics	Course Assessment Report	MATH309 Applied Statistics (4,0) 4 alternate years A continuation of MATH308 including estimation of parameters, testing hypotheses, nonparametric methods, analysis of variance, multiple regression and an introduction to

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	MATH309	Applied Statistics	Course Assessment Report	statistical software packages.
	MATH310	Differential Equations	Course Assessment Report	MATH310 Differential Equations (3,0) 3 Differential equations of first order, linear differential equations of second and higher orders, including Laplace transformation. Introduction to power series methods, applications
	MATH321	History of Mathematics	Course Assessment Report	REPLACE THIS TEXT WITH THE COURSE STUDENT LEARNING OUTCOMES
	MATH325	College Geometry	Course Assessment Report	MATH325 College Geometry (2,2) 3 alternate years Selected topics in geometry, including some or all of the following: Modern elementary geometry, transformations, Euclidean constructions, dissection theory, projective geometry, introduction to non-Euclidean geometry, and problems in foundations of geometry.
	MATH341	Abstract Algebra I	Course Assessment Report	MATH341 Abstract Algebra I (3,0) 3 alternate years An introduction to congruencies, groups, subgroups, quotient groups, fundamental homomorphism theorems, Sylow theorem
	MATH342	Abstract Algebra II	Course Assessment Report	MATH342 Abstract Algebra II (3,0) 3 on demand A continuation of MATH341 including rings, integral domains, ideals, quotient rings, the natural homomorphism, fields and polynomial rings.
	MATH351	Graph Theory	Course Assessment Report	MATH351 Graph Theory (3,0) 3 alternate years Selected topics in graph theory, including connectivity, matchings, edge and vertex colorings, networks and tournaments.
	MATH401	Mathematical Modeling	Course Assessment Report	MATH401 Mathematical Modeling (3,0) 3 alternate years Selected applications of mathematics in such areas as biology, economics, social science and engineering are discussed. The construction of a mathematical model used to study a real situation will be stressed, as well as interpretation of mathematical results in that context.
	MATH411	Advanced Topics in Calculus	Course Assessment Report	MATH411b Advanced Topics in Calculus (3,0) 3 alternate years An extension of the calculus in one, two, and three dimensions leading to the formulation and solution (in simple cases) of the partial differential equations of mathematical physics. Differential and integral calculus of vectors, divergence, curl, line, surface and volume integrals, Green's divergence and Stokes' theorems, heat and wave equations, Fourier series, orthogonal sets, boundary value problems, separation of variables.
	MATH413	Introduction to Complex Analysis	Course Assessment Report	MATH413 Introduction to Complex Analysis (3,0) 3 on demand The calculus of functions of a complex variable, algebra and geometry of complex numbers, elementary functions, limits, derivatives, Cauchy-Riemann equations, integrals, Cauchy integral theorem, series, singularities, residue theorem.
	MATH421	Real Analysis	Course Assessment Report	MATH421 Real Analysis (3,0) 3 on demand An examination of some of the foundations of the calculus, including basic topology of the

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	MATH421	Real Analysis	Course Assessment Report	real line, limits, continuity, metric spaces, function spaces, some uniformity concepts
	MATH490	Individualized Research Topics in Mathematics	Course Assessment Report	MATH490 Individualized Research Topics in Mathematics (1-4,0) 1-4 Special studies and/or research in mathematics for individuals or small seminar groups. Course content to be arranged with instructor and with approval of the department head.
TheCourses - Nursing: HLTH, NURS, PNUR	HLTH101	Introduction to Medical Terminology	Accurately Use	9. Accurately use a medical dictionary and/or index.
			CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Comprehend and Define	1. Comprehend and define medical words/terms used in the medical profession.
			Construction of Medical Words	2. Identify the components that make up the construction of medical words.
			Describe Medical Terms	5. Describe medical terms within a human body system context, including terms that define associated disease processes.
			Divide into Components	8. Divide basic medical terms into their component parts.
			Forming Medical Terms	4. Combine prefixes and suffixes with root words to form medical terms.
			Medical Abbreviations	6. Define commonly used medical abbreviations.
			Spell, Pronounce, Define, and Correctly Use	7. Accurately spell, pronounce, define, and correctly use medical terminology when communicating.
			Word Structures	3. Analyze word structures according to their roots, prefixes and suffixes.
			Assess a Child's Food Intake	4. Assess a child's food intake for nutritional adequacy.
			CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Community Resources	10. Identify community resources available to help parents and other care providers who have children with nutritional concerns.
			Development of Food Habits	5. Understand early development of food habits in children and relate this to health status in later life.
Fast Foods	6. Explore the nutritional value of fast foods.			
Food Management Strategies	7. Understand food management strategies needed to effectively plan/implement a day care center menu.			
Function of Major Nutrients	3. Understand the function of major nutrients for the growing child.			
Nutrient Intake Affects Growth/Development	1. Recognize how nutrient intake affects the growth and development of children.			
Sources Major Nutrients	2. Identify food sources of major nutrients.			
Using Enriched Products, Food Additives and Vitamin	9. Determine the value of using enriched products, food additives and vitamin supplements with young children.			

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Supplements	
			Value of Educational Background in Nutrition	8. Recognize the value of an educational background in basic nutrition for child care providers.
	HLTH185	Basic Pre-Nursing Competency Skills	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			safe performance of tasks	student will safely perform venipuncture
	HLTH208	Principles of Human Nutrition	Basic Concepts of Nutrient Groups	1. Understand the basic concepts of the study of nutrition, including the classifications, functions, and major metabolic aspects of nutrient groups (proteins, carbohydrates, lipids, water, minerals, and vitamins).
			CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Disorders and Disease Process	7. Apply basic nutrition knowledge in various disorders and disease processes.
			Lifestyle and Health Impact	5. Recognize the importance of fitness, physical activity and nutrients in weight management, eating disorders, athletes, bone health, dental health, and cardiovascular health.
			Nutrient Availability Principles	3. Describe basic principles of digestion, absorption, and metabolism to explain how nutrients become available to meet their functions in the body.
			Nutrition Throughout the Life Cycle	Students will demonstrate the importance of food safety practices throughout the life cycle.
			Role of Micronutrients and Water	4. Understand the roles of vitamins, minerals and water in body processes and the importance for maintenance of human functions.
			Role of Nutrition Throughout the Lifecycle	Students will demonstrate improved level of knowledge of basic nutrition upon completion of the course
			Roles of Macronutrients	2. Understand the roles of carbohydrate, fat, and protein in the body and the best food sources of each of these energy-yielding nutrients.
			SMART Goal Setting and Dietary Analysis	6. Apply basic nutrition knowledge by evaluating one's diet, including interpreting and formulating recommendations to improve personal eating habits.
	HLTH209	Pharmacology	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Drug reactions and routes.	3. Student will know the parameters for safe, competent drug administration, therapeutic assessment of drug action, and growth in knowledge of pharmacology.
			HEALTH CARE POLICY, FINANCE, AND REGULATORY ENVIRONMENTS	Identifies health care policies, including financial and regulatory, directly and indirectly influencing the nature and functioning of the health care system as evidenced by successful completion of HLTH 209 Unit Test #1 Questions.
			Pharmacodynamic and Pharmacotherapeutic Actions	1. Understand pharmacodynamic and pharmacotherapeutic actions of specific therapeutic agents.
	HLTH210	Introduction to Health	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	HLTH210	Care Concepts and Issues	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Communication Techniques	8. Describe effective communication techniques and its effect on quality health care.
			Educational Programs and Roles of Health Care Personnel.	5. Contrast the educational programs and roles of health care personnel.
			Factors Influencing Change	2. Discuss factors influencing change in the health care system.
			Goals, Structures, and Functions	1. Describe the goals, structures, and functions of the health care system.
			Health Care Delivery Models	10. Compare the advantages and disadvantages of health care delivery models.
			Health Care Delivery System	4. Examine issues inherent in the health care delivery system.
			Issues of Ethical Concern	7. Discuss issues of ethical concern for health care providers and workers in public health.
			Organizational Culture	11. Analyze the concept of organizational culture and its impact on health care delivery.
			Rights and Responsibilities	6. Describe the rights and responsibilities of the consumer of health care.
			Risk Management	9. Identify risk management in health care delivery and environmental systems.
			Roles of Health Care Providers	3. Describe the roles of health care providers within the health care system.
	HLTH232	Pathophysiology	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Cell injury, Inflammation, Healing and Fever	1. Understand the basic mechanisms of cell injury, inflammation, healing and fever
			Principles of Immune System and Development of Cancers	3. Understand the principles of immune response, immune dysfunction, and the development of cancers
			Signs and Symptoms to Diseases	2. Relate signs and symptoms to diseases to these basic functions
	HLTH235	Healthcare Informatics	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Communication and Collaboration	Obj #6. Develops communication and collaboration among health care professionals and patients to deliver high quality and safe patient care as evidenced by acquisition of knowledge regarding nursing and other health related taxonomies.
			Computer competency	Student will demonstrate ANA core competences for computer use
			Evidence Based Practice	Obj. #3. Identifies and describes research for potential application for evidence based practice as evidenced by completing identification and analysis of evidence based practice hard copy and electronic resources.
			Health Care Policies	Obj. #5. Identifies health care policies, including financial and regulatory, directly and indirectly influencing the nature and function of the health care system as evidenced by ability to discuss how information technologies are impacted and impact health care systems.
			Health Promotion and Disease Prevention in Informatics	Obj. #7. Defines and applies health promotion and disease prevention at the individual and population health levels as evidenced by development of health education materials using the science of healthcare informatics.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Identifies Knowledge and Skills Needed to Provide Health Care	Obj. #2. Identifies knowledge and skills in leadership, quality improvement, and patient safety to provide health care as evidenced by identifying valid data, information, and knowledge resources for health care practice.
			Knowledge of Nursing Informatics	Obj #1. Develop a solid base in liberal education for nursing practice as evidenced by acquisition of knowledge of nursing informatics and its base components of nursing science, library science, computer science, and cognitive science related to health care issues.
			Knowledge/Skills in Information Management and Patient Care	Obj. #4. Illustrates knowledge and skills in information management and patient care technology in the delivery of quality patient care as evidenced by demonstrated understanding, development, and dissemination of data, information, and knowledge for the purpose of patient care.
			Professionalism/ethics/integrity/social justice as evidenced by ability to discuss ethical use of data, information, and knowledge related in health informatics.	Obj. #8. Defines professionalism and inherent values of ethics, integrity, and social justice as evidenced by ability to discuss ethical use of data, information, and knowledge related in health informatics.
	HLTH328	Multicultural Approaches to Health Care	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			General Education - Diversity	Students will discuss racial and cultural diversity in American society including defining the concept of culture, differentiating ethnocentrism and cultural relativity, comparing and contrasting values of selected cultural groups, and exploring the relationship of culture, kinship systems, religious practices, language, and customs with the global outcome of being able to view the world from cultural perspectives other than their own.
			HEALTH CARE POLICY, FINANCE, AND REGULATORY ENVIRONMENTS	Identifies health care policies, including financial and regulatory, directly and indirectly influencing the nature and functioning of the health care system as evidenced by well-informed, well-reasoned student responses on the discussion boards.
			INTERPROFESSIONAL COMMUNICATION AND COLLABORATION	Models communication and collaboration among health care professionals and patients to deliver high quality and safe patient care as evidenced by the demonstration of knowledge gained from cultural research and experience when participating in student-led presentations and discussions.
			LIBERAL EDUCATION FOR BACCALAUREATE GENERALIST NURSING PRACTICE	Develops a solid base in liberal education for pursuing practice as evidenced by the synthesis of culture identification and implications for health care derived from the cultural awareness/service learning experience and investigation of the culture of their families of origin.
	HLTH329	Women's Health Issues	Access to Health Care	1. Understand how access to health care and health insurance, cultural insensitivity, and other obstacles affect the health of women.
			CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Gender Differences	5. Compare and contrast gender differences in women and men with regards to chronic diseases and conditions, physical, and mental health.
			Health Screening Guidelines	3. Review health screening guidelines and immunization recommendations for women

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Health Screening Guidelines	across the lifespan.
			Social Dimensions of Women's Health	6. Understand the social dimensions of women's health including substance abuse, violence, and women in the workforce.
			Women as Health Care Consumers	2. Recognize ways that women as health care consumers affect demand within the health-care system.
			Women's Sexual and Reproductive Health	4. Understand how cultural values, stereotypes, and socialization define and influence women's sexual and reproductive health.
	HLTH330	Applied Nutrition	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Compare/Contrast Methods used in Assessment	4. Compare and contrast methods used for nutritional assessment of individuals and populations.
			Current Societal Trends	1. Identify factors that influence current societal trends in nutrition for US residents.
			Epidemiological View in Analyzing	3. Use an epidemiological view in analyzing nutrition's role in health and illness for individuals and populations.
			Research, Theory and Practice	2. Apply nutritional research, theory and practice in health care situations.
			Roles that Medications/Chemicals/Nutrients Play	5. Recognize the roles that medications, chemicals and nutrients play in relation to nutritional intake for individuals.
			Utilizing Interdisciplinary Resources	6. Identify the importance of utilizing interdisciplinary resources in providing nutritional programming for individuals and groups.
	HLTH352	Health Issues of Aging Populations	Aging Theories	4. Utilize knowledge of aging theories during interdisciplinary assessment of selected situations common to the elderly client system.
			CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Commitment to Protect the Rights	7. Demonstrate a commitment to protect the rights of the older client that are associated with human dignity.
			Common Pathological Conditions	2. Categorize common pathological conditions associated with advancing age.
			Community Resources Aimed at Assisting	8. Evaluate community resources aimed at assisting in the care and service to elders in the community.
			Epidemiological Model	5. Utilize an epidemiological model to explore preventive and treatment interventions in the promotion of "successful" aging.
			Evidence Based Research and National Standards	9. Utilizes evidence based research and national standards in the contact and interactions with the aging population.
			Personal Values	3. Recognize the impact of one's personal values on the interaction process when working with older individuals.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Physiological and Psychological Changes	1. Identify expected physiological and psychological changes associated with advancing age.
			Review Strategy to Effectively Meet Needs of Elderly	6. Critically review strategy options intended to effectively meet the needs of the older client.
	HLTH452	Contemporary Issues in Nutrition	Adapt Research to Develop Education Materials	5. Adapt research to develop nutrition education materials appropriate for the general public.
			Apply Theory	2. Apply theory to practice in nutritional case situations and scenarios.
			CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Factors that Influence Societal Trends	1. Identify factors that influence current societal trends in nutritional health for U.S. residents.
			Nutritional Information and Misinformation	7. Critically evaluate nutritional information and misinformation in educational materials designed for the public.
			Research Literature on Recent Trends/Recommendations	4. Demonstrate ability to conduct research of the literature to investigate current scientific evidence that supports recent trends and recommendations for nutritional application.
			Role that Foods, Supplements and Nutrients Play	6. Analyze the role that nutraceuticals, phytochemicals, functional foods, supplements and nutrients play in the promotion of health and wellness for individuals and populations.
			Use Epidemiological Frame to Analyze	3. Utilize an epidemiological frame to analyze the role of nutrition in health and illness for individuals and populations.
	HLTH490	Independent Study in Health	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Dissemination of Information	Demonstrate proficiency in analyzing interdisciplinary research findings about a selected nutritional topic, and providing those finding in an appropriate foment for dissemination.
			Scholarly Research/Resources	Demonstrate proficiency in the utilization of current scholarly research/resources for use as a foundation in exploring a selected topic at various levels within the contextual frame of human nutrition.
	NURS211	Introduction to Professional Nursing	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Patient safety and collaborative practice measures.	Develop an understanding of the need for communication and collaboration among health care professionals and patients to deliver high quality and safe patient care as evidenced by acquisition of knowledge regarding components of health care delivery systems, communication techniques, and collaborative roles in health care.
			Reference supported person nursing philosophy	Illustrate knowledge and skills in information management as evidenced by developing a reference supported personal nursing philosophy.
			SLO2	Identify knowledge and skills in leadership, quality improvement, and patient safety to provide health care as evidenced by acquisition of knowledge related to critical thinking, decision making, and professional nursing roles.
			Support of professional nursing practice	Develop a solid base in liberal education for nursing practice as evidenced by acquisition of a theoretical knowledge base from nursing, history, education, and related disciplines to support professional nursing practice.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	NURS212	Health Appraisal	BACCALAUREATE GENERALIST NURSING PRACTICE	Recognizes nursing practice with patients, individuals, families, groups, communities, and populations across the lifespan and across the continuum of health care environments and the variations of care, the increased complexity, and the increased use of health care resources inherent in caring for patients as evidenced by successful completion of the Head to Toe Assessment and Health History assignment.
			CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			COMMUNICATION AND COLLABORATION	Illustrates communication and collaboration among health care professionals and patients to deliver high quality and safe patient care as evidenced by ability to successfully work with colleagues in the care of real and simulated patients.
			HEALTH CARE POLICY AND REGULATION	Demonstrates or understands health care policies, including financial and regulatory, directly and indirectly influencing the nature and functioning of the health care system as evidenced by successful completion of the Health Insurance Portability and Accountability Act (HIPAA) quiz.
			INFORMATION MANAGEMENT	Shows knowledge and skills in information management and patient care technology in the delivery of quality patient care as evidenced by demonstration of appropriate documentation and management of patient information gathered during assessments.
			PROFESSIONALISM AND PROFESSIONAL VALUES	Defines professionalism and inherent values of altruism, autonomy, human dignity, integrity, and social justice as evidenced by successfully performing the Community Action Agency 6 month evaluation of a client.
			QUALITY CARE AND PATIENT SAFETY	Identifies knowledge and skills in leadership, quality improvement, and patient safety to provide quality health care as evidenced by accurate, appropriate clinical assessment skill demonstration for all body systems.
	NURS213	Fundamentals of Nursing	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Communication, Collaboration, safety, and quality	#6 Develop communication and collaboration among health care professionals and patients to deliver high quality and safe patient care as evidenced by relation of individual patient needs to the plan of care
			Evidence Based Practice	#3 Identify and describe research for potential application for evidenced-based practice as evidenced by summarization of a research article that applies to the comprehensive care plan and identification of evidence-based nursing protocols that support nursing care in the clinical setting.
			Health Promotion and Disease Prevention	#7 Define and applies health promotion and disease prevention at the individual and population health levels as evidenced by demonstration of patient care teaching and completion of an individualized teaching plan
			Information Management and Technology	#4 Illustrate knowledge and skills in information management and patient care technology in the delivery of quality patient care as evidenced by the demonstration of the use of electronic medical records, a variety of approved documentation methods, confidentiality protocols, databases, communication methods, and record depositories.
			Liberal Arts/Nursing Theory	#1Develop a solid base in liberal arts education for nursing practice as evidenced by relation of nursing theories to practice both in the classroom and clinical nursing settings.
			Lifespan/Cultural	#9 Recognize and/or applies nursing practice with patients, individuals, families, groups, communities, and populations across the lifespan and across the continuum of health care environments and the variations of care, the increased complexity, and the increased use of

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Lifespan/Cultural	health care resources inherent in caring for patients as evidenced by identification of factors that affect consumer health care decisions when planning and implementing care.
			Professionalism and Values	#8 Define professionalism and inherent values of altruism, autonomy, human dignity, integrity, and social justice as evidenced by demonstration of respect for the ideas and contributions of colleagues, others, and participation with and support of each other during group activities, professional behavior and dress when interacting in real world organizations during learning experiences
			Safety, quality, critical thinking, decision making	#2 Identify knowledge and skills in leadership, quality improvement, and patient safety to provide quality health care as evidenced by the demonstration of advocacy, critical thinking and decision making skills while performing basic nursing care and procedures.
			Standards of Practice, Policy, and Regulation	#5 Identify health care policies, including financial and regulatory, directly and indirectly influencing the nature and functioning of the health care system as evidenced by summarization of ANA nursing standards and code of ethics, national patient safety goals, applicable core measure standards, and MDS data requirements.
	NURS290	Directed Study in Nursing	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
	NURS325	Nursing of Childbearing Families	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Communication and collaboration	Models communication and collaboration among health professionals and patients to deliver high quality and safe patient care as evidenced by integrating critical thinking and supportive decision making skills in providing care for the childbearing family.
			Health policies	Demonstrates knowledge of health care policies, including financial and regulatory, directly and indirectly influencing the nature and functioning of the health care system as evidenced by the ability to identify factors which impede and/or facilitate access to the health care system.
			Health Promotion	Demonstrates health promotion and disease prevention strategies, at the individual and population based health levels as evidenced by the provision of professional leadership skills of organization, priority setting, communication and cost-containment while providing care for childbearing families.
			Information management and technology	Applies knowledge and skills in information management and patient care technology in the delivery of quality patient care as evidenced by the use of the nursing process to promote health and to prevent complications with childbearing families.
			Liberal Education Base	Demonstrates acquisition of a solid base in liberal education into nursing practice as evidenced by the achievement of a theoretical knowledge base from nursing and related disciplines in planning care for the childbearing. https://lssu.tracdat.com/tracdat/faces/assessment/course_assessment/editObjective.jsp#
			Research	Applies research for potential application for evidence-based practice as evidenced by the ability to relate current research to clinical practice issues related to childbearing.
	NURS326	Nursing of Children and Families	Analyze and Synthesize related theoretical knowledge development	1. Demonstrates acquisition of a solid base in liberal education into nursing practice as evidenced by use of a theoretical knowledge base from nursing and related disciplines (ie. growth and development, grief, pathophysiology, and multicultural) in planning nursing care of children.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Communication and Collaboration	6. Models communication and collaboration among health care professionals and patients to deliver high quality and safe patient care as evidenced by collaborating and modeling appropriate professional behavior in the classroom, lab and clinical setting in communication with all members of the health care team including patients and families.
			Health Care Systems	5. Demonstrates health care policies, including financial and regulatory, directly and indirectly influencing the nature and functioning of the health care system as evidenced by reviewing systems in relation to economics, social, political, legal and access issues within discussion, clinical paper work, and paper writing.
			Health Promotion and Disease Prevention	7. Demonstrates health promotion and disease prevention strategies at the individual and population health levels as evidenced by using nursing process in developing a nursing care plan and growth and development paper.
			Nursing Practice	9. Applies nursing practice with patients, individuals, families, groups, communities and populations across the lifespan and across the continuum of health care environments and the variations of care, the increased complexity, and the increased use of health care resources inherent in caring for patients as evidenced by caring for pediatric patients and their families in the hospital and community setting and referring them to community resources/ support groups.
			Professionalism	8. Models professionalism and inherent values of altruism, autonomy, human dignity, integrity, and social justice as evidenced by demonstration of competent, caring behaviors and professional values in interactions with parent/child, colleagues and faculty.
			Quality Health Care	2. Develops knowledge and skills in leadership, quality improvement, prioritization, and patient safety to provide quality health care as evidenced by integrating critical thinking, prioritization, and problem solving skills in the nursing care of children in the clinical setting.
			Students will provide evidence-based practice for pediatric patient in selected Simulation Scenarios.	3. Applies research for evidence-based practice as evidences by reading and reviewing research articles to integrate into nursing care plans and demonstrating current knowledge and competence in the clinical setting with pediatric patients.
			Technology	4. Applies knowledge and skills in information management and patient care technology in the delivery of quality patient care as evidenced by documentation in electronic medical record and medication administration records in clinical settings and complying with the patient care system each agency has adopted.
	NURS327	Adult Nursing I	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Incorporate evidence based care	Students will incorporate least one research article into the care plan of the patient on whom they did their CCP.
			Models Communication	Models communication and collaboration among health care professionals and patients to deliver high quality and safe patient care as evidenced by forming partnerships and using effective communication skills.
			Patient Care Technology	Applies knowledge and skills in information management and patient care technology in the delivery of quality patient care as evidenced by using appropriate technology to access scientific data, retrieve patient information, document client information, and plan nursing care for individuals and their families.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Professionalism and professional values	Models professionalism and inherent values of altruism, autonomy, human dignity, integrity, and social justice as evidenced by progressively integrating critical thinking and decision making skills in order to practice nursing safely and with minimal direction for more than one patient and demonstrating competent, caring behaviors by respecting the legal, ethical and moral rights and values of others.
	NURS328	Multicultural Approaches to Health Care	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			HEALTH CARE POLICY, FINANCE, AND REGULATORY ENVIRONMENTS	Identifies health care policies, including financial and regulatory, directly and indirectly influencing the nature and functioning of the health care system as evidenced by well-informed, well-reasoned student responses on the weekly discussion boards.
			INTERPROFESSIONAL COMMUNICATION AND COLLABORATION	Models communication and collaboration among health care professionals and patients to deliver high quality and safe patient care as evidenced by student-led presentations and discussions regarding cultures they have researched and experienced.
			LIBERAL EDUCATION FOR BACCALAUREATE GENERALIST NURSING PRACTICE	Develops a solid base in liberal education for pursuing practice as evidenced by completion of the summary of learning that is written after two experiences of cultural immersion.
			PROFESSIONALISM AND PROFESSIONAL VALUES	Models professionalism and inherent values of altruism, autonomy, human dignity, integrity, and social justice as evidenced by researching and presenting a complimentary/alternative health therapy or religious/spiritual philosophy.
	NURS352	Health Issues of Aging Populations	Aging Theories	4. Utilize knowledge of aging theories during interdisciplinary assessment of selected situations common to the elderly client system.
			CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Commitment to Protect the Rights	7. Demonstrate a commitment to protect the rights of the older client that are associated with human dignity.
			Common Pathological Conditions	2. Categorize common pathological conditions associated with advancing age.
			Community Resources Aimed at Assisting	8. Evaluate community resources aimed at assisting in the care and service to elders in the community.
			Epidemiological Model	5. Utilize an epidemiological model to explore preventive and treatment interventions in the promotion of "successful" aging.
			Evidence Based Research and National Standards	9. Utilizes evidence based research and national standards in the contact and interactions with the aging population.
			Personal Values	3. Recognize the impact of one's personal values on the interaction process when working with older individuals.
			Physiological and	1. Identify expected physiological and psychological changes associated with advancing age.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Psychological Changes	1. Identify expected physiological and psychological changes associated with advancing age.
			Review Strategy to Effectively Meet Needs of Elderly	6. Critically review strategy options intended to effectively meet the needs of the older client.
	NURS360	Professional Nursing Concepts	Caring Behaviors and Values	5. Demonstrate competent, caring behaviors and values in interactions with colleagues and faculty.
			CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Concepts of Professionalism	2. Analyze the concepts of the professionalism and professionalization in nursing.
			Critical Thinking	3. Analyze the process of critical thinking and decision making responsibilities of the nurse in relation to ethical, moral, economic, and legal issues in nursing and health care.
			ethical, Moral, Legal, and Economic Parameters	9. Discuss the ethical, moral, legal, and economic parameters related to the nursing profession.
			Historical and Contemporary Views of Health	10. Explore the historical and contemporary views of health and health promotion and practices that are integral to health in self and others.
			History of Nursing	1. Discuss the historical development of nursing as a profession
			Life Long Learning	6. Recognize the values of life long learning.
			Philosophy of nursing	8. Examine own beliefs and develop or formulate a philosophy of nursing.
			Principles of Teaching and Learning	4. Examine principles of teaching and learning.
			Research and Clinical Issues	11. Relate current research to clinical practice issues.
			Theories	7. Describe the core, essential or basic theories that contribute to the discipline of nursing.
	NURS363	Individual and Family Assessment	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Documentation of health assessment findings	Students will concisely and accurately document the normal and abnormal findings related to their conducted health assessments.
			LIBERAL EDUCATION FOR BACCALAUREATE GENERALIST NURSING PRACTICE	Synthesizes nursing practice with patients, individuals, families, groups, communities, and populations across the lifespan and across the continuum of health care environments and the variations of care, the increased complexity, and the increased use of health care resources inherent in caring for patients as evidenced by videotaping and documenting the three required physical assessments.
	NURS365	Family Nursing Theory	Alterations in Family Structure	7. Analyze the nursing implications of alterations (dysfunctional) in family structure, function, and process.
			CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Effective and Ineffective Family Communication	8. Differentiate between effective and ineffective family communication patterns.
			Family Developmental Tasks Through Family Life Span	4. Discuss how family developmental tasks through the family life span affect nursing care.
			Family Theory Directs Practice	1. Analyze how family theory directs nursing practice of families.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Goals of Family Mental Health	6. Discuss the goals of family mental health nursing interventions in health promotion, acute illness, and chronic illness.
			Impact of Illness	5. Analyze the impact of illness (acute, chronic, and terminal phases) on family roles and functioning, and the related nursing care implications.
			Influence of Spirituality, Culture, Social Class	3. Discuss the influence of spirituality, culture and social class on family health.
			Internal Family Coping Strategies	9. Discuss the common internal family coping strategies to stress, and the appropriate nursing interventions to enhance external family coping strategies to stress.
			Relationships of Family	2. Analyze the relationships of family structure, roles, and functions to health status.
	NURS431	Adult Nursing II	Application of theories to guide nursing practice caring for patients in acute care/outpatient setting.	To develop clinical reasoning and independent decision-making in the care of patients with multiple health care needs/stressors
			Assesses and takes appropriate nursing leadership action to optimize assigned patients' care in acute care setting and administrative day.	Reflective journal during leadership clinical rotation.
			CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Displays professional demeanor and dress, recognizes unsafe practices, becomes more independent in nursing practice, recognizing and learning from mistakes, and demonstrates respect for patients' rights and autonomy.	80% of students will achieve a satisfactory on their final clinical evaluation related to the objective "demonstrates respect for human dignity, freedom and self-direction at all times, being sensitive to issues of cultural diversity and discrimination."
			Documents timely and accurately in electronic medical and medical administration record, seeking input of other health professionals and contributing input to optimize patient care, and communicating with patients and health care team members in the provision of care.	80% of students will receive a satisfactory on their final clinical evaluation related to the performance outcome of "Promptly communicates all significant observations to appropriate health team member using SBAR format.
			Documents timely and	Timely (within 2 hrs of beginning of clinical) and accurate documentation of assigned patient

			accurately in electronic medical and medical administration records, and uses online/library research to improve nursing practice/patient education.	assessment in electronic medical record.
			Provides safe and evidence based nursing practice to acutely ill patients and assumes 75% of RN role/assignment by end of leadership clinical rotation.	Satisfactory leadership clinical evaluation.
			Selects appropriate teaching methods and timing of patient education.	Documents patient teaching in electronic medical record using appropriate written resources.
			Uses safe nursing practices in provision of nursing care, developing a group change project to improve patient outcomes/nursing practice, developing collegial relationships with health care team.	Group change project presentation-80% of students will demonstrate a minimum grade of 72% when answering the question "Identify and validate the need for change based on a review of the current literature."
			Utilizes clinical practice guidelines and critiques nursing research and journal articles for relevance to acute care practice settings.	Critique of applicable nursing research article for comprehensive care plans(2).
	NURS432	Nursing of Populations	Baccalaureate Generalist Nursing Practice	Obj. #9. Synthesizes nursing practice with patients, individuals, and families, groups, communities, and populations across the lifespan and across the continuum of health care environments and the variations of care, the increased complexity, and the increased use of health care resources inherent in care for patients as evidenced by provision of competent care for diverse populations and community based patients.
			CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Clinical Prevention and Population Health	Obj.#7. Determines health promotion and disease prevention at the individual and population health levels as evidenced by employing the nursing process within an interdisciplinary environment to promote and restore health and prevent disease in populations.
			Health Care Policy, Finance and Regulatory Environments	Obj. #5. Analyzes health care policies, including financial and regulatory, directly and indirectly influencing the nature and function of the health care system as evidenced by using the political process to advocate for high quality, accessible, cost-effective health care delivery as well as assisting clients to navigate health payment systems.
			Information Management	Obj. #4. Adapts knowledge and skills in information management and patient care

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			and Application of Patient Care Technology	technology in the delivery of quality patient care as evidenced by using technology to gather data and disseminate health care information to populations.
			Inter-professional Communication and Collaboration for Improving Patient Health Outcomes	Obj. #6. Appraises communication and collaboration among health care professionals and patients to deliver high quality and safe patient care as evidenced by identifying and, as appropriate, providing primary, secondary and tertiary levels of prevention in populations and integrating case management concepts into health care planning for populations.
			Leadership for Quality Care and Patient Safety	Obj. #2. Synthesize knowledge and skills in leadership, quality improvement, and patient safety to provide health care as evidenced by provision of professional leadership skills of organization, priority setting, communication, and cost containment while providing care for populations and individuals receiving community based care.
			Liberal Education for Baccalaureate Generalist Nursing Practice	Obj. #1. Appraises/synthesizes a solid base in liberal education for nursing practice as evidenced by application of theoretical/empirical knowledge from nursing and related disciplines into community health practice.
			Professionalism and Professional Values	Obj.#8. Emulates professionalism and inherent values of altruism, autonomy, human dignity, integrity, and social justice as evidenced by respecting the rights and values of the client population, colleagues and faculty. Integrate caring behaviors which assist clients to maintain human dignity, worth, and integrity.
			Scholarship for Evidence Based Practice	Obj. #3. Evaluate and describe research for potential application for evidence based practice as evidenced by incorporation of evidence based nursing practice in nursing care of populations.
	NURS433	Community Mental Health Nursing	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Communication and Collaboration	Appraises communication and collaboration among health professionals and patients to deliver high quality and safe patient care as evidenced by integrating critical thinking, self-reflection and therapeutic communication in providing nursing care for clients with mental health needs.
			Evidence Based Practice	Evaluates research for potential application for evidence based practice as evidenced by the ability to relate current research to clinical practice issues related to mental health.
			Health Care Systems	Analyzes knowledge of health care policies, including financial and regulatory, directly and indirectly influencing the nature and functioning of the health care system as evidenced by the ability to identify factors which impede and/or facilitate access to appropriate mental health services and resources.
			Health Promotion and Disease Prevention	Develops health promotion and disease prevention strategies at the individual and population health levels as evidenced by the identification, developed and delivery of interventions to address the mental health needs of individuals and populations.
			Liberal Education Base	Synthesizes acquisition of a solid base in liberal education into nursing practice as evidenced by the acquisition of a theoretical knowledge base from nursing and related disciplines in planning mental health care.
			Nursing Practice	Synthesizes nursing practice with patients, individuals, groups, communities and populations across the lifespan and across the continuum of health care environments and the variations of care, the increased complexity and the increased use of health care resources inherent in caring for patients as evidenced during planning provision of care for clients with mental

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Nursing Practice	health needs.
			Professionalism	Emulates professionalism and inherent values of altruism, autonomy, human dignity, integrity and social justice as evidenced by the demonstration of competent, caring behaviors and professional values in interactions with clients with mental health needs, colleagues, and faculty
			Provision of Quality Health care	Synthesizes knowledge and skills in leadership, quality improvement, and patient safety to provide quality health care as evidenced by provision of professional leadership skills of organization, priority setting, communication, and cost-containment while providing mental health care.
			Technology	Adapts knowledge and skills in information management and patient care technology in the delivery of quality patient care as evidenced by use of the nursing process to promote mental health and provide therapeutic treatment to clients with mental health needs.
	NURS434	Nursing Research	Appraise, and synthesize research evidence to differentiate clinical opinion from research and evidence summaries.	Obj. #3. Evaluates research for potential application for evidence based practice as evidenced by critiquing qualitative and quantitative research articles for strengths and limitations. Selecting and critique appropriate qualitative and quantitative research studies, and identifies strengths of a rigorous study and questions limitations on implications of findings (e.g., causal vs. relational).
			CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Critical appraisal of applied research related to healthcare quality and safety measures.	Obj. # 5 Appraises communication and collaboration among health care professionals and patients to deliver high quality and safe patient care as evidenced by developing presentations of evidence based practice protocols through poster presentations to colleagues. Critically appraises topics based on driving research agendas such as nurse sensitive quality indicators and performance measures (Magnet Status, Core Measures, CMS, TJC, clinical practice guidelines, etc.)
			Disseminates research evidence.	Obj#6. 6. Emulates professionalism and inherent values of altruism, autonomy, human dignity, integrity, and social justice as evidenced by developing and presenting research posters. Share evidence of best practice with the interprofessional team and disseminates the findings and suggested practice protocol/intervention by the end of the course.
			Identify levels of evidence and locate nursing, health, and other relevant research literature reporting EBP	Obj. #2. Synthesizes knowledge and skills in leadership, quality improvement and patient safety to provide quality health care as evidenced by explaining the value of nursing research for evidence-based nursing practice by locating and evaluate sources of nursing research information, from paper and electronic database search strategies (e.g., CINAHL, PubMed, Cochrane) and other Internet sources of evidence by midterm.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Identify levels of evidence and locate nursing, health, and other relevant research literature reporting EBP	Applying the systematic process for identifying the evaluation and application of that scientific evidence to practice.
			Protection of human subjects in the conduct of research	Obj #4. Adapts knowledge and skills in information management and patient care technology in the delivery of quality patient care as evidenced by demonstrating understanding of the rights and responsibilities relative to legal and ethical issues or research involving human subjects Identify the required components of a proper informed consent when conducting research for the Protection of Human Subjects of Research defined by the Belmont Report.
			Understanding of the basic elements of the research process	Obj #1. Synthesize a solid base in liberal education into nursing practice as evidenced by the understanding of the process of conducting research Identify principles and models of evidence based practice, including basic qualitative and/or quantitative research designs, corresponding PICO questions, and analytically methods related to the research questions, and limits on implications of findings (e.g., causal vs. relational) by the end of the course.
	NURS435	Management in Nursing	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Communication and Collaboration	Appraise communication and collaboration among health care professionals and patients to deliver high quality and safe patient care as evidenced by the application of evidence based practice, the use of application tools for problem solving, application of the nursing process, examination of politics in nursing, conflict resolution and motivation.
			Evidenced-Based Practice	Evaluates research for potential application for evidence based practice as evidenced by the utilization of scholarly resources to support discussion, reflections, learning experiences and classroom presentation, and development of personal and group/organizational management/leadership philosophy.
			Health Promotion	Develops health promotion and the disease prevention strategies at the individual and population health levels as evidenced by the evaluation of nursing roles in health resource management, marketing and program or service evaluation and development and presentation of a group Capstone project that focuses on improving outcomes in patient care and nursing care delivery
			Health Care Systems	Analyzes health care policies, including financial and regulatory, directly and indirectly influencing the nature and functioning of the health care system as evidenced by the analysis of financial and regulatory concepts through research, group interactions with chief financial officers, nursing leaders and leaders through the community, examinations of professional scopes and standards of practice and the role of the nurse manager in relation to the patient, and capstone presentation
			Liberal Education	Synthesize a solid base in liberal education into nursing practice as evidenced by application of nursing and management theories both in the classroom, group activities and through assignments.
			Professionalism	Emulate professionalism and inherent values of altruism, autonomy, human dignity, integrity and social justice as evidenced by acceptance of ownership for the roles and responsibilities

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Professionalism	of the registered nurse, demonstration of respect for the ideas and contributions of colleague, others and participation with and support of each other during group activities, professional behavior and dress when interacting in real world organizations during learning experiences.
			Quality Care	Synthesizes knowledge from diverse sources and skills in leadership, quality improvement and patient safety to provide quality health care as evidenced by the ability to analyze the impact of organizational structures, missions, philosophy, culture and delivery systems on professional nursing practice and management and leadership.
	NURS436	Contemporary Issues in Nursing	1. Critical Thinking and Reflective Practice (updated)	Appraises a solid base in liberal education for nursing practice as evidenced by application of theoretical/empirical knowledge from nursing, the physical and behavioral sciences, and the humanities in analyzing contemporary issues.
			2. Ramifications of One's Actions and Responsibilities (updated)	Synthesizes knowledge and skills in leadership, quality improvement, and patient safety to provide quality health care as evidenced by analyzing the ramifications of one's actions and responsibilities in professional practice.
			3. Evaluates Research for integration into Practice (updated)	Evaluates research for potential application for evidence-based practice as evidenced by integrating research findings in analyzing contemporary issues and trends influencing the quality of health care.
			4. Technology (updated)	Designs knowledge and skills in information management and patient care technology in the delivery of quality patient care as evidenced by identifying benefits, limitations, and challenges with technology in the health care workplace.
			5. Legal, Ethical and Economic (updated)	Analyzes health care policies, including financial and regulatory, directly and indirectly influencing the nature and functioning of the health care system as evidenced by identifying effects of legal, ethical, and economic issues on health care through research and case studies.
			6. Communication and Collaboration when Analyzing Ethical and Moral Issues (updated)	Appraises communication and collaboration among health care professionals and patients to deliver high quality and safe patient care as evidenced by integrating professional, individual, and cultural values when analyzing ethical and moral issues in nursing practice.
			7. Decision Making Related to Professional Issues	Determines health promotion and disease prevention at the individual and population health levels as evidenced by competencies of critical thinking and reflective practice when making decisions related to contemporary professional issues.
			8. Transition from student to professional (updated)	Emulates professionalism and inherent values of altruism, autonomy, human dignity, integrity, and social justice as evidenced by knowing the ramifications of one's actions and responsibilities in professional practice and preparing for role transition from student to professional.
			9. Continuing Education and Active Participation in Professional Organizations (updated)	Synthesizes nursing practice with patients, individuals, families, groups, communities, and populations across the lifespan and across the continuum of health care environments and the variations of care, the increased complexity, and the increased use of health care resources inherent in caring for patients as evidenced by appreciating the importance of continued education and active participation in professional organizations as an integral component of the nursing role.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
	NURS437	Nursing Leadership and Issues	Analysis of Care	Demonstrate knowledge, skills, and attitudes required to participate in evaluation and improvement of nursing care.
			CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
			Decision Making	Analyze the decision making responsibilities of the nurse in relation to ethical, moral, economic, and legal issues in nursing and health care.
			Knowledge Synthesis	Demonstrates a synthesis of knowledge from nursing, scientific, and humanistic disciplines through nursing practice in various settings.
			Management/Leadership	Participate in selected functions of management as related to the responsibilities of the nurse in coordinating and managing care in various health care settings.
			Professionalism	Demonstrate professional nurse caring, leadership, and advocacy with diverse clients.
			Provision of Quality Health Care	Demonstrate a commitment to the value of collegiality collaboration and the need for life long learning and continued growth toward expert practice through: a. participation in activities that support the profession of nursing b. establishment of long term goals.
	NURS490	Directed Study in Nursing	CCNE Program Effectiveness	CCNE Outcome 4.F evidence of program effectiveness
	PNUR102	Drugs and Dosages	"Rights of Medication Administration	The learner will be able to identify and demonstrate the 7 rights of medication administration.
			basic medication knowledge	The student will apply basic knowledge of medications to various patient conditions.
			Basic PN procedures with medications	Begins to use critical thinking and decision making skills when demonstrating basic practical nursing procedures with medications.
			Calculate medication dosages	Performs conversions from one system to another to correctly calculate medication dosages.
			Commitment to life-long learning	The student will recognize that the skills, competencies, and values for a successful lifetime of practical nursing practice require a continuing commitment to learn.
			Documentation	The student will correctly document administration of medications.
			Medication side effects	The student will identify common side effects and nursing implication for common medications.
	PNUR104	Introduction to Practical Nursing II	Attend University Event	10. Participate in a LSSU community extracurricular event.
			Attend University Meeting	9. Participate in LSSU student club or organization.
			Communication Techniques	1. Identify appropriate communication techniques when working with adult clients.
			Critical Thinking	7. Discuss the concepts of critical thinking and problem solving in practical nursing.
			Culture, Religion, Values	3. Develop an awareness and sensitivity of different cultural and religious beliefs and values.
			Evidenced Based Practice	8. Discuss the need for evidenced based nursing practice and its relationship to practical nursing.
			Health Care Systems Differences	4. Discuss the differences in health care systems.
			Levels of Nursing Care	5. Discuss holistic health care, health promotion, health restoration, and rehabilitation.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Medical Terminology	11. Utilizes medical terminology in written and oral communication.
			Nursing Process	2. Identify the steps of the nursing process.
			Stress and Adaptation	6. Discuss the concepts of stress and adaptation.
	PNUR107	Understanding Clinical Nutrition Lab for Practical Nurses	Nutrition - client support	The student will show evidence of competency to provide fluid and nutrition support to clients under their care.
			Nutrition - knowledge and skills	The student will correctly apply specific knowlege and skills related to fluid administration at the practical nursing level.
	PNUR113	Fundamentals of Practical Nursing	Assume Accountability	10. Begin to assume accountability and responsibility in practical nursing roles.
			Competent Care	2. Demonstrate competent care of the elderly resident.
			Critical Thinking	1. Use beginning critical thinking and decision making skills in performing basic nursing procedures and implementing plans of care.
			Identify factors affecting consumer's decisions when planning care.	4. Identify factors that affect consumer health decisions when planning and implementing practical nursing care.
			Impact of Health Care Costs on Care	8. Demonstrate the impact of health care costs on practical nursing care.
			Lifelong Learning	9. Recognize that a successful career in practical nursing requires a commitment to lifelong learning.
			Nursing Process	5. Demonstrate application of the nursing process in providing holistic practical nursing care with elderly populations.
			Nursing Process/Policy Manual Impact on Care	11. Identify the nursing process and policy manual in the clinical setting and its impact on practical nursing care.
			Promote Holistic Health	3. Promote the holistic health of the elderly in the clinical setting.
			Safe, Ethical, Moral, and Legal Client Care	7. Demonstrate safe, ethical, moral, and legal client care at a beginning practical nursing level
			Values/Attitudes in Development of Caring	6. Identify personal values and attitudes that contribute to development of professional caring.
	PNUR201	Medical Surgical Practical Nursing	Communication Skills	3. Use therapeutic communication skills in caring for adults.
			General Medical Surgical Care Knowledge	7. Students will achieve a 72 % accumulative score on Unit exams and final exam before addition of points from assignments and presentations.
			Member of Team	5. Begins work as a member of the health care team to optimize patient care.
			Safe Care	2. Demonstrate safe effective care of adults with well-defined health problems.
			Scope of Practice	6. Provide care within the legal scope of practical nursing.
			Time Management in Providing Care	4. Develop organizational skills, flexibility and prioritization in providing nursing care.
			Use Nursing Process	1. Use the nursing process to care for adults with well-defined nursing problems

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
	PNUR202	Legal/Ethical Issues in Practical Nursing	Ethical Issues	Discuss current ethical issues that impact nursing care.
			Laws that Impact License	2. Identify various laws that impact licensed practical nursing practice.
			Life Long Learning	5. Recognize the need for professional growth and life long learning.
			Role Transition	6. Explore transition from student nurse role to licensed practical nursing practice.
			Scope of Practice	1. The student will describe the scope of practice for a licensed practical nurse.
			Values/Accountability	4. Assimilate the personal values of honesty, integrity and accountability for practice within the practical nursing environments.
	PNUR205	Maternal/Child Practical Nursing	Apply and assist	3. Assist with nursing interventions used during labor to increase clients' comfort and ability to cope.
			Apply knowledge	1. Apply knowledge from nursing and the sciences in the family care of mothers, infants, and children.
			Demonstrate	9. Demonstrate therapeutic communication skills and cultural sensitivity in the care of new mothers and their families.
			Identify	2. Identify maternal and fetal risk factors in the antenatal and intrapartal periods.
			Identify	4. Identify postpartum risk factors for the mother and newborn.
			Identify and understand	8. Identify nursing interventions for maintenance of health of children.
			Identify dimensions	6. Identify physical, social, psychological, and spiritual dimensions of the child and family.
			Identify needs and risks	7. Identify the immunization needs and common health risk factors of children.
			Relate concepts	5. Relate concepts of growth, development and nutrition in the care of children.
			Use acquired knowledge	10. Use the nursing process to provide safe, holistic care for families with newborns and children within the legal scope of practical nursing.
	PNUR206	Ambulatory Care Practical Nursing	Communication	3. Communicate effectively with clients and health team members to assist in assessing client needs with respect for physical, psychological, sociocultural, and spiritual dimensions.
TheCourses - Physical Sciences: CHEM, EVRN, GEOL, NSCI, PHYS	CHEM091	Basic Chemistry	Elements	Given a periodic table, students can correctly use the names, symbols, atomic number and mass of the first 36 elements in solving basic story problems.
	CHEM108	Applied Chemistry	Acids and Bases	Students will utilize proper terminology associated with acids and bases and calculate the pH of a solution.
			Calculations	Students will successfully perform basic mathematical calculations including formula mass and mole calculations.
			Chemical Bonding	Students will apply the principles of chemical bonding to solve problems on an examination.
			Conversion factors	Students will be able to perform mathematical conversions between various metric units of measurement
			General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Naming Compounds	Students will be able to properly name a variety of compounds.
			Performance on the national ACS exam	50% of the students will score at or higher than the 50th percentile national average on the general portion of the GOB American Chemical Exam.
			Subatomic particles	Students will demonstrate an understanding of key concepts associated with subatomic particles (protons, neutrons and electrons).
	CHEM109	Applied Chemistry Lab	Acids/Bases	Students will perform calculations related to acidity and accurately predict and determine pH of solutions.
			Calculations	Students will perform basic mathematical calculations including formula mass and mole calculations.
			Density	Students will perform mathematical calculations involving the density of solids, liquids and gases.
			General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
			Knowledge	Students will be able to independently utilize basic laboratory apparatus including appropriate glassware, bunsen burners, burets, pH meters and top loading balances.
			Laboratory Techniques	Students will demonstrate proficiency of basic laboratory skills including measurement/weighing, separation techniques and crystallization.
	CHEM110	Applied Organic and Biochemistry	Biopolymers	Students will recognize and describe the major types of biopolymers (proteins, nucleic acids, oligosaccharides).
			Drawing major types of organic reactions	Students will recognize, identify and draw products of the major types of organic reactions.
			Enzymes and Inhibitors	Students will describe the function of enzymes, inhibitors and vitamins.
			General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
			IUPAC names for organic nomenclature	Students will identify and draw organic functional groups and provide IUPAC names for organic molecules.
			Metabolic process	Students will describe the major metabolic process and factors that affect their regulation, with an emphasis on human health.
			Stereochemistry	Students will recognize and interpret stereochemistry and its role in biologically active compounds.
	CHEM115	General Chemistry I	Chemistry Literacy	At the completion of the course the students will demonstrate chemical literacy through interpreting written and spoken chemical nomenclature
			Content Comprehension	Students will demonstrate comprehension of topics typically covered in the first semester of introductory general chemistry course series by successfully answering conceptual and applied questions on the American Chemical Society First Semester Examination. These topics include, but are not limited to, atomic structure of atoms, chemical formulas, bonding, periodic trends, chemical reactions, stoichiometry, intermolecular forces, gas laws and energy.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
	CHEM116	General Chemistry II	ACS objectives outcome	Students will demonstrate comprehension of topics typically covered in the second semester of an introductory general chemistry course series by successfully answering conceptual and applied questions on the American Chemical Society Second Semester Examination. Concepts will include: theories of bonding, the states of matter, solution chemistry, factors controlling chemical reactions, chemical equilibrium, acids and bases, redox chemistry, thermodynamics.
			General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
			Laboratory learning outcome	Have a working knowledge of chemical laboratory techniques as demonstrated by successfully completing a multitude of chemistry experiments in the laboratory section and a laboratory practical.
	CHEM225	Organic Chemistry I	Acidity	Students will describe the basis of acidity for organic molecules and be able to identify the role of organic acids and bases in acid/base equilibria.
			Drawing Mechanisms	Draw mechanisms for specified chemical reactions using curved arrow formalism
			Identify and name organic functional groups	Students will be able to identify and name organic functional groups.
			IUPAC nomenclature	Students will convert between names and structures of organic compounds (IUPAC nomenclature).
			Reaction Prediction	Students will predict organic products arising from specified reaction conditions
			Stereochemistry	Students will be able to determine stereochemistry of chiral centers in organic molecules.
	CHEM231	Quantitative Analysis	Analytical chemical calculations	Students will perform routine chemical calculations related to analytical chemistry
			Equilibrium	Students will predict the effects of changes to an equilibrium system
			Laboratory Analysis	Students will perform gravimetric and volumetric analysis of analytes, including considerations for accuracy and precision.
			Statistics associated with chemical data analysis	Students will use basic statistical methods associated with chemical data analysis
			Statistics-1	Students will determine the basic statistical measures associated with chemical analysis
	CHEM261	Inorganic Chemistry	Properties	Students will describe properties and compositions of common chemical substances
			Reactivity	Students will predict the chemical reactivity of elements and their compounds across the periodic table
	CHEM310	Applied Spectroscopy	Data Collection	The student will be able to collect various types of data using different spectroscopic techniques.
			Data Interpretation	The student will be able to interpret various types of data using the different spectroscopic techniques described.
			Data Processing	The student will be able to process various types of data using different spectroscopic techniques.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Spectroscopy Theory	The student will be able to explain how various spectroscopic techniques can be used in chemical research.
			Structure Determination - Integration	The student will be able to integrate various spectroscopic techniques to determine molecular structure.
	CHEM326	Organic Chemistry II	Predict organic products arising from specified reaction conditions.	Students will predict organic products arising from specified reaction conditions.
			Predict reasonable routes to synthesize specific organic molecules	Students will predict reasonable routes to synthesize specific organic molecules
			Provide IUPAC names for organic molecules	Students will be able to name a given organic compound using IUPAC nomenclature or generate a structure of an organic compound from the name.
			Recognize and describe organic oxidation and reduction reactions.	Students will recognize and describe organic oxidation and reduction reactions.
			Students will recognize and describe organic acid/base reactions	Recognize and describe organic acid/base reactions through use of pKa understanding.
	CHEM332	Instrumental Analysis	Basic Understanding of the components that comprise modern chemical instrumentation	Students will demonstrate a basic understanding of the electrical/mechanical components that comprise modern chemistry instrumentation.
			Calibration curves and unknown analysis	Students will create and apply a calibration curve to determine the concentration of an analyte unknown.
			Determination of instrument type that is utilized for specific chemical analytes.	Students in the class will be able to determine what type of instrumentation is appropriate for different chemical analytes.
			Perform Analytical Chemical calculations	Students in the class will perform analytical chemical calculations related to modern instrumentation.
	CHEM341	Environmental Chemistry	Analysis	critically analyze the relevant literature of the course topics
			Quantitative	Be able to quantitatively evaluate the chemistry of environmental systems
	CHEM351	Intoductory Biochemistry	Cellular Location	Students will identify the intracellular locations of various metabolic processes discussed and the mechanism of membrane transport used to "divide" cellular labor.
			Central Dogma	Students will illustrate the "Central Dogma" of biochemistry, and describe the mechanisms cells utilize to achieve both energy production and information storage.
			Lab Techniques	Students will utilize modern laboratory techniques to characterize biomolecules and assay enzymatic activity.
			Metabolism	Students will outline the major metabolic processes used to produce ATP.
			Protein and Enzymes	Describe the relationship between protein and enzyme structure, function, mechanism, and inhibition.

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			Regulation of Metabolism	Students will describe regulation and the connections between various metabolic pathways both anabolic and catabolic as well as disease caused by the disruption of these pathways
			Structure	Students will draw from memory the structures of all 20 amino acids, the 5 nucleic acid bases, various sugars as well as the structures of biopolymers made from the units.
	CHEM353	Introductory Toxicology	Introductory toxicological concepts	Students will apply basic toxicological concepts to analyze toxins.
			Literature Comprehension	Students will compose a comprehensive review paper that assesses current literature on a toxin, that integrates benchmark toxicological concepts in concert with present research.
			Toxicology Individual Project	Students will work as a member of a group to present on a toxin of their choice. Group presentations will be accurate and demonstrate a command of the material, specifically the basic concepts of toxicology and in depth concepts regarding their toxin.
	CHEM361	Physical Chemistry I	Fundamental Equations of Thermodynamics	Students will be able to derive the expressions for various thermodynamic properties using the fundamental equations.
			Laws of Thermodynamics	Students will be able to use the statements of the laws of thermodynamics
	CHEM362	Physical Chemistry II	Particle-wave duality	Students will apply a wave equation to simple systems
			Vibration and Rotation	Students will apply quantum-mechanical treatment to vibration and rotation of simple systems
	CHEM363	Physical Chemistry Lab	Rate of reaction	Students will experimentally determine reaction order (overall and for each reactant) and rate constant for a chemical process.
			Thermodynamic parameters	Students will experimentally determine various thermodynamic quantities for a given process
	CHEM395	Junior Seminar	Literature	Students will research, retrieve and utilize the scientific and technical literature
			Proposal project design	Students will develop a project and a project management plan
	CHEM445	Forensic Science	Forensic Chemistry Literature Review Learning Outcome	Students will perform critical evaluation of literature pertaining to forensic chemistry published in peer reviewed journals such as the Journal of Forensic Chemistry. Critical evaluation is defined as participating in weekly literature reviews and leading one literature review over the semester.
			Forensic Chemistry Theory Learning Outcome	Students will describe physical evidence, forensic legal concepts, biological evidence analysis, drugs, combustion and explosion evidence and their applications in forensic sciences.. Additionally, students will describe quality control and measurement in forensic analysis.
			Laboratory Proficiency	Students will analyze evidence leading to preparation of a formal report and verbally defend the findings.
	CHEM452	Advanced Biochemical and Molecular Techniques	Bioethics	The student will discuss historical and ethical issues in biochemistry and molecular biology.
			Building Blocks	Students will describe and illustrate DNA, RNA, and amino acid chemical structure.
			DNA Purification	Students will successfully isolate and purify nucleic acids.
			Electrophoresis	Students will perform electrophoresis of both nucleic acid and protein (agarose and PAGE) and analyze results.
			PCR	The student will design and conduct a polymerase chain reaction (PCR)

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Purify Protein	Students will isolate and purify proteins.
			Quantitation	The student will quantify biomolecules using conjugated antibodies in visualization techniques (Western, ELISA)
			Recombinant DNA	The student will design and outline DNA manipulation techniques, such as restriction enzyme digestion, plasmid mapping, and primer design, leading to production of recombinant plasmid.
			SOP	The student will prepare standard operating procedures (SOPs) for experiments.
	CHEM461	Advanced Inorganic Chemistry	Applications of Group Theory	Students will use symmetry operations and their applications to predict and/or explain IR and Raman spectra of the molecules and to construct the set of molecular orbitals for polyatomic compounds
			QM treatment of Inorganic compounds	Students will apply the concepts, methods and techniques of quantum chemistry and symmetry analysis to complex chemical systems and make predictions for these systems
	CHEM462	Advanced Inorganic Chemistry Laboratory	Characterization	Students will interpret the UV-Vis, NMR and FT-IR spectra to characterize inorganic and complex compounds
			Reporting	Students will produce and organize a report in clear and concise manner using the American Chemical Society guidelines
	CHEM495	Senior Project	Data Analysis	Students will interpret, analyze and discuss scientific data from their project
			Project Implementation	Students will plan and perform novel research generating scientific data.
	CHEM499	Senior Seminar	Oral presentation	Students will perform a public oral presentation of a research topic, presenting either original research or using literature sources to address a scientific question.
			Poster presentation	Students will create and present a scientific poster describing their original research or the findings from a literature review addressing a scientific question.
			Write a scientific manuscript	Students will write a scholarly paper in the manner consistent with the chemistry literature.
	CNTR101	Environmental Analysis Laboratory	Knowledge and Technical Skills	Demonstrate theoretical knowledge and technical skills in an analytical laboratory setting according to established laboratory standards.
	EVRN131	Introduction to GIS and GPS	GIS-based Project	Learners will be able to synthesize course concepts and exercises to plan and execute a GIS based group project which proposes a solution to a real-world problem.
			Introduction to Geographic Information Systems	This course is designed to initiate the exploration of tools and technology needed to access, manipulate, and display geographic information. Topics include cartography, Geographic Information Systems (GIS), and Global Positioning Systems (GPS).
	EVRN225	Intermediate GIS	Intermediate GIS	Emphasis is on geodatabases, geospatial analysis techniques, field data collection and editing, and GIS research and reporting.
	EVRN311	Environmental Law	Practical situations	Students will be able to determine what laws apply in practical situations.
			State and Federal Laws	Students will understand the sources of legal authority and how each might affect a given situation.
	EVRN317	Environmental Health Applications	Exposure	Describe the various pathogens and toxins that have public health significance and their routes of exposure
			Public Health	Analyze existing regulations and evaluate how they contribute to public health and welfare, and determine if they are appropriate based on the best available scientific evidence.

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	EVRN325	Geospatial Analysis	Geospatial Analysis	This course focuses on a wide range of issues related to the analysis of raster models, Digital Elevation Models, and Satellite Imagery. Special emphasis is placed on visualization and analysis of environmental data.
			Identify and utilize	Identify various sources of geospatial data and utilize them in real-world application project.
	EVRN341	Environmental Chemistry I: Water and Water Pollution Control	Chemistry and life	Analyze the relationships between the chemistry of the environment & life on Earth
			Communicate	Effectively communicate scientific results
	EVRN355	GIS Programming and Applications	Python and GIS	Exploration of different approaches to automate tasks by utilizing both ModelBuilder and Python scripting.
	EVRN389	Environmental Research Methods	Data Collection and Analysis	Students will be able to design an adequate field sampling and analysis plan to evaluate scientific questions considering economic and logistic constraints and generate, analyze, and critically evaluate environmental data.
	EVRN395	Junior Seminar	Project	Be able to develop a project and a project management plan
	GEOG106	Physical Geography: Landforms	General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
	GEOG108	Physical Geography: Meteorology & Climatology	General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
	GEOL115	Field Excursions in Earth Science	General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
	GEOL121	Physical and Historical Geology I	General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
			General Physical and Historical Geology Outcome	Students will be able to understand and appreciate the scientific process, especially as it applies to the field of geology ? the study of the Earth.
			Key	Use a dichotomous key to identify common rocks and minerals by determination of inherent properties
	GEOL122	Physical and Historical Geology II	Rock units versus time-rock units	Students will demonstrate a conceptual understanding of how rock units and time-rock units differ and associated implications for studying the ancient rock record.
	GEOL223	Mineralogy and Petrology	min-pet	<ol style="list-style-type: none"> Determine the diagnostic properties of mineral specimens and the most significant characteristics of the primary rock forming minerals. Use appropriate classification schemes to identify minerals and igneous, sedimentary, and metamorphic. Interpret the formation processes of rocks and minerals through the identification of rock textures and minerals assemblages and application of this information and related knowledge.
	GEOL308	Structural Geology and	field/laboratory studies	Students will carry out field and/or laboratory studies to answer geology structural

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	GEOL308	Tectonics	field/laboratory studies	questions.
	GEOL315	Geoenvironmental Systems	Environmental Impacts	Describe the impacts of common pollutants and natural disasters on Earth's surface and identify and discuss possible sources of contamination and the impact of society on pollution and natural hazards.
			Surface Processes	Evaluate the impacts of important surface processes on shaping Earth's surface morphology.
	GEOL323	Geochemical Systems	Geochemical Systems	The student will be able to understand the origin and evolution of magmas, igneous crystallization and emplacement processes, hydrothermal reactions and ore deposits.
	GEOL325	Clastic Systems	Clastic Rock Analysis	At the completion of the course students will have described clastic sedimentary rocks in hand sample, in outcrop, and in thin section and developed interpretations of depositional environment based on sediment composition, texture, structure, and fossil content.
	GEOL411	Hydrologic Systems: Surface and Groundwater	Formulate and evaluate	formulate water budget for given system and use it as a tool for the evaluation of water resources sustainability
			The hydrologic system	The study of hydrologic systems with an emphasis on land surface and groundwater hydrology. Topics include the hydrologic cycle, precipitation, droughts, evapotranspiration, groundwater flow, groundwater-surface water interaction and stream hydraulics. Laboratory components will provide experience in Geographic Information Systems, numerical modeling, and independent research.
	GEOL431	Geophysical Systems	Skills	3. Students will develop quantitative, computer, instrumental, writing, presentation and critical thinking skills.
			Surveys	2. Student will plan and conduct geophysical surveys and process and interpret geophysical data and communicate their results.
			Techniques	1. Students will apply geophysical techniques to address geological, geophysical and/or environmental questions.
	GEOL445	Carbonate Systems	Classification	Identify and classify carbonate rocks and thin sections using schemes of Folk and Dunham
	GEOL450	Geology Seminar I	Recognizing Stratal Architectures	1. At the completion of the seminar course students will have applied key Sequence Stratigraphic principles to the interpretation of seismic and well log datasets from passive continental margin settings.
	GEOL451	Geology Seminar II	Plate processes	6. Students will analyze earthquake first motion data to determine the location, type of and orientation of faulting and interpret this information in the context of plate tectonic processes.
	GEOL468	Tectonic Systems	Tectonic outcomes	1. At the completion of this course students will have conducted field studies and used the information collected to develop and support their interpretation of the tectonic evolution of a particular region. 2. Students will present written tectonic summaries of the results of their observations and independent literature research.

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	GEOL468	Tectonic Systems	Tectonic outcomes	
	GEOL480	Advanced Field Geology	geologic field mapping	Students will gain field skills in preparing geologic maps
			Geologic interpretation	Students will interpret structural and tectonic evolution of a geologic region based on their field observations, field mapping, cross sections, etc.
			Petrologic interpretation	Students will interpret depositional environments and igneous and metamorphic processes based on their field observations.
	NSCI101	Conceptual Physics	General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
	NSCI102	Great Lakes Region: Geology and Resources	Apply Convective Processes to Understand the Theory of Plate Tectonics	Mantle convection is the driving mechanism for plate tectonics. a. At mid-oceanic ridges new oceanic crust is created (high heat flow) and at trenches old oceanic crust is subducted (low heat flow). b. At mid-oceanic ridges old oceanic crust is subducted (low heat flow) and at trenches new oceanic crust is created (high heat flow).
			General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
			Plate Tectonics	Understand how plate tectonics has shaped our Earth and its role in the formation of each rock type, earth surface processes, and Earth surface morphology.
			Understanding the Rock Cycle (as it relates to plate tectonics)	The students thoroughly understand that: The rock cycle is a theoretical concept that relates plate tectonics and the various rock-forming processes to the common rock types (igneous, sedimentary, metamorphic). One type of rock may form at the expense of another if it is forced out of equilibrium by surficial forces on the Earth's surface or internal forces within the Earth.
	NSCI103	Environmental Science	General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
			Sustainability	Be able to describe the characteristics of a sustainable society.
	NSCI104	Environmental Science Laboratory	Formal Report	Be able to generate a formal scientific report
			General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
	NSCI110	Investigations in Chemistry and Forensics	Chemistry and Forensics Problem Solving	By the end of the semester, the student will be able to solve chemistry and foensic related equations and problems.
			Chemistry literacy	At the completion of the course the students will have a greater understanding of terminology used in forensics and chemistry.
			General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			General Education - Natural Science	
	NSCI116	Introduction to Oceanography	General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
			Ocean Properties	Be able to describe the physical, geological, chemical, and ecological characteristics of the ocean and describe how these properties are interdependent
	NSCI119	Descriptive Astronomy	General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
	PHYS221	Principles of Physics I	General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
			Mathematics	To acquire and demonstrate the ability to do the basic math associated with introductory physics.
	PHYS231	Applied Physics for Engineers and Scientists I	General Education - Natural Science	Students will be able to incorporate empirical evidence in the analysis of the causes and consequences of natural phenomena.
			Mathematics	To acquire and demonstrate the ability to do the basic math associated with introductory physics.
TheCourses - Social Sciences: GEOG, HIST, POLI	GEOG201	World Regional Geography	General Education - Social Science	Think critically and analytically about the causes and consequences of human behavior
			labeling	learn, locate and label physical features and major urban centers in North America, Mexico & Central America, South America, Western & Northern Europe, Southern & Eastern Europe, and Russia
	GEOG302	Economic Geography	General Education - Social Science	Think critically and analytically about the causes and consequences of human behavior
	GEOG306	Cultural Geography	Awareness	To develop an awareness of both folk and popular culture and the impact on the cultural landscape
			General Education - Diversity	View the world from cultural perspectives other than their own
			Learn	To learn the history of the development of food crops and their diffusion throughout the world
	HIST101	History of World Civilization I	Demonstrating Classical knowledge	Be able to demonstrate an understanding of the chronology, narratives, perspectives, and interpretations of world history, including its beginnings, Early Civilizations, and Classical Traditions (beginnings to 300 C.E.) through comparing and contrasting historical interpretations.
			Demonstrating Knowledge Exchanges and Encounters	Be able to demonstrate an understanding of the chronology, narratives, perspectives, and interpretations of world history during the era of Expanding Zones of Exchange and Encounter (300-1000 C.E.) through comparing and contrasting historical interpretations.
			Demonstrating knowledge of Hemispheric interactions	Be able to demonstrate an understanding of the chronology, narratives, perspectives, and interpretations of world history during the era of Intensified Hemispheric Interactions (1000-

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Demonstrating knowledge of Hemispheric interactions	1500 C.E.) through comparing and contrasting historical interpretations
			General Education - Social Science	Think critically and analytically about the causes and consequences of human behavior
	HIST102	History of World Civilization II	Demonstrate knowledge of First Global Age	Demonstrate an understanding of the chronology, narratives, perspectives, and interpretations of world history during the Emergence of the First Global Age (1450–1770 C.E.) through comparing and contrasting historical interpretations
			Demonstrate knowledge of the 20th Century	Demonstrate an understanding of the chronology, narratives, perspectives, and interpretations of world history during the twentieth century through comparing and contrasting historical interpretations
			Demonstrate knowledge in Age of Revolutions	Demonstrate an understanding of the chronology, narratives, perspectives, and interpretations of world history during an Age of Revolutions (1750–1914 C.E.) through comparing and contrasting historical interpretations
			General Education - Social Science	Demonstrate an understanding of the chronology, narratives, perspectives, and interpretations of world history during the Emergence of the First Global Age (1450–1770 C.E.)
	HIST131	United States History I	Analysis	Analyze and compare various interpretations of the events and decisions of each era.
			Cause and Effect	Explain the cause and effect among important events of each of the five eras
			Demonstration	Demonstrate knowledge through compare and contrast of the implications and long-term consequences of key political, legal, economic, and military decisions made at critical turning points in each era of American History.
			General Education - Social Science	Think critically and analytically about the causes and consequences of human behavior
			Identification	Identify the sequence of historic events in each era by comparing and contrasting the settings and the people affected.
	HIST132	United States History II	Analysis	Analyze and compare various interpretations of the events and decisions of each era.
			Demonstration	Demonstrate a knowledge of the implications and long-term consequences of key political, legal, economic, and military decisions made at critical turning points in each era of American History through compare and contrast.
			Explanation	Explain the cause and effect among important events of each of the nine eras through compare and contrast.
			General Education - Social Science	Think critically and analytically about the causes and consequences of human behavior
			Identification	Identify the sequence of historic events in each era and describe the setting and the people affected.
	HIST203	Chinese Cultural Diversity	General Education - Diversity	View the world from cultural perspectives other than their own
	HIST231	Natives and Newcomers	Comparative Perspectives	Introduce students to comparative perspectives of aesthetic values from multiple cultures and how those values are considered in human interaction
			Examination	Examine human aesthetics and cultural generalizations through the eyes of natives and

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Examination	newcomers while reflecting on how cultural aesthetics shaped the interaction of people and societies.
			Interpretation	Reinforce critical thinking and interpretation through analysis and evaluation of the historical development of people, commodities, technology, and ideas that shaped North America
	HIST302	England in the Modern World	Analysis	Be able to analyze perspectives and interpretations of British history during the period from the Congress of Vienna to the outbreak of World War I
			Identify	Be able to identify and analyze perspectives and interpretations of British history during the era of World Wars and Communist challenge (1914 to the Present)
			Interpret	Be able to interpret the chronology, narratives, and perspectives of British history in the period from the Glorious Revolution to the end of the Napoleonic wars, 1688-1815
	HIST310	Russia: From Under-developed State to Superpower	Analyze	Analyze the grand themes in Russian history which still are of influence today
			Compare	Compare and contrast the similarities and differences between the eras of Soviet communism and present day Russia
			Explain	Explain the chronology, perspectives, and interpretations of world history in the 19th century, including the role of expansion, the rise of radicalism and liberalism, and the fall of the Romanov dynasty
			Interpretation	Demonstrate (in narrative or writing) an understanding of the chronology, relationship, perspectives, and interpretations of Russian history in the 18th century including the reigns of Peter the Great, Catherine the Great, and Alexander I
	HIST321	Michigan History	Interpretations	Interpret political, economic, social, and cultural movements and developments that have impacted the history of Michigan.
	HIST333	American Military History	Analysis	Analyze the political, social, economic, and cultural impact of the military upon American history.
			Demonstrate	Demonstrate proficiency in historical interpretation, research, and writing.
			Description	Describe the US military's role in society by comparing and contrasting historical movements.
			Examination	Examine the evolution of war and the progression of military professionalism.
	HIST335	American Political Parties	Attitudes	4. Be aware of the changing attitudes of the American public toward political parties.
			Contemporary	5. Analyze the relevance or irrelevance of studying past political movements to contemporary politics.
			Major Parties (or why I went into political science)	1. Demonstrate knowledge of the American party system and major and minor parties from its beginning through World War II.
			Minor Parties	3. Appreciate the importance of minor parties and major splits within major parties.
			Rise and fall	2. Be able to discuss the rise and decline of various political parties.

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	HIST371	Far East Civilization: 1850 to Present	Analysis	Analyze and interpret the role of Buddhism, Taoism, Confucianism, and Neo-Confucianism in the history and development of these civilizations.
			Compare and Contrast	To understand the issues and points of view of Asian and Western Nations from 1600 to the present through contrast and comparison.
			Compare and interpret	Compare interpret the important role of major reformers in China and Japan and their impact on these civilizations.
			Identification	Identify geographical features and regions of eastern Asia, and their importance past and present.
			Interpret	Interpret historical development of political, economic, & social institutions of these civilizations.
	HIST440	The Declaration of Independence and the Constitution	Analyze	Students will analyze, while comparing and contrasting interpretations of the study of the formation and growth of the Constitution.
			Hypothesis	Students will analyze and formulate hypotheses on the historiography of the American Revolution
			intrepretation	Students will be able to hone historical interpretation of the events between 1763 to 1791 that is based on evidence and reason.
			Writing Skills	Students will hone and master their reading and writing skills, analytical and critical thinking, relational and interpretative abilities, and historical judgment.
	HIST441	Diplomatic History of the US I	Demonstration	Demonstrate understanding not only of different historical interpretations, but also the methods used to arrive at that understanding.
			Exhibit understanding	Exhibit understanding of root concepts and application of historical knowledge.
			Illustration	Illustrate proficiency in employing techniques of historical methodology.
			Judgement	Judge multiple interpretations of historical events.
	HIST490	Individual Historical Research	Argument	2. Be able to synthesize historical evidence into a comprehensive argument.
			Interpretation	3. Be able to interpret the work of other students, analyzing others work for historical accuracy.
			Paper	1. Produce a paper on a historical topic of their choice.
			Proficiency	4. Be able to demonstrate a proficiency in the topic of choice.
	HIST496	Historical Methods	Analysis	Analyze historical opinions based on evidence and reason, rather than personal feeling.
			Development	Develop reading and writing skills, analytical and critical thinking, relational and interpretative abilities, and historical judgment.
			Evaluation	Evaluate answers to a historical problem and will be able to define their arguments in a cohesive, logical fashion.
			Formulate	Formulate historical writing methods and how to formulate a thesis statement, methodology, and organizational outline.

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	HIST497	Senior Seminar in History	Production	Produce a paper on a historical topic of their choice.
			Proficiency	Demonstrate a proficiency in the topic of choice
			Synthesis	Synthesize historical evidence into a comprehensive argument
	LAWS102	Legal Research and Case Analysis	Point of law	Student will be able to research a point of law after an issue has been identified.
	POLI110	Introduction to American Government and Politics	Compare Powers	Compare and contrast the powers of the US Congress, the Presidency, the Bureaucracy, and the Judiciary according to the Constitution and common practice
			Discuss controversies	Discuss past and current controversies about civil rights and liberties
			Federalism	Describe the division of powers in our federalist system
			General Education - Social Science	Think critically and analytically about the causes and consequences of human behavior
			Looking forward	Analyze the policy issues facing the United States currently, and as we move forward
			Outside factors	Explain the impact of public opinion, media, interest groups, and political parties on elections and the political system
			Prominent political ideologies	Identify and explain the prominent political ideologies in United States politics and describe their respective beliefs, values, and attitudes.
	POLI130	Introduction to State and Local Government	Federalism	Describe the division of powers in the federal system
			Institutions	Compare and contrast the powers of the state legislatures, governors, public service, and the judiciary.
	POLI160	Introduction to Canadian Government and Politics	General Education - Social Science	Think critically and analytically about the causes and consequences of human behavior
			Institutions	Describe the Canadian political system and institutions.
	POLI202	Political Science Research and Statistics	Issues	Describe and analyze important current political issues using these research concepts.
			Tools	Demonstrate competency with resource materials for conducting research in political science.
	POLI222	Introduction to the Legal Profession	Law School	Students will be able to identify potential law schools and the requirements for admission.
	POLI234	Women and Politics Around the World	General Education - Diversity	View the world from cultural perspectives other than their own
	POLI241	Introduction to International Relations	General Education - Social Science	Think critically and analytically about the causes and consequences of human behavior
			Theories	Evaluate theories of the causes of wars and sources of international cooperation.
	POLI247	Model United Nations	Countries	Describe the geography, demography, economy, culture, and politics of numerous UN member countries.
			Current events	Discuss important current issues in world politics that are addressed through the United Nations.
			Policies	Analyze the policies of those countries on current world issues.

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			United Nations	Describe the structure, purpose, and workings of the United Nations.
	POLI331	Comparative Politics of Europe	Comparison	Compare and contrast European and American political behavior, institutions, and policies.
			Culture	Describe and analyze the political culture and contemporary conflicts within European politics.
			Institutions	Describe the political systems and institutions of major European states and the European Union.
	POLI334	Middle East Politics	General Education - Diversity	View the world from cultural perspectives other than their own
			Palestinian-Israeli Conflict	Discuss and analyze the Palestinian-Israeli conflict historically and in the present day.
	POLI342	International Environmental Policy	Actors	Describe the linkages among national and international actors as well as public institutions, firms, and nongovernmental organizations.
			Concepts	Describe the basic perspectives on international cooperation, the nature of international institutions and policy regions, and the concept of sustainable development.
			Institutions	Describe and analyze the development of global environmental institutions, laws, regimes, and policies.
			Issues	Analyze specific case studies varying from climate change to hazardous chemical regulation.
	POLI351	Political Philosophy I	Broaden Perspective	Broaden intellectual perspective
			Oral Communication Skills	Enhance oral communication skills
			Principal Ideas	Become familiar with the principal ideas of the period's principal political philosophers
			Think Analytically	Enhance capacity to think analytically
			Think Critically	Enhance the capacity to think critically
			Writing Skills	Enhance writing skills
	POLI352	Political Philosophy II	Broaden Perspective	Broaden intellectual perspective
			Oral Communication Skills	Enhance oral communication skills
			Principal Ideas	Become familiar with the principal ideas of the period's principal political philosophers
			Think analytically	Enhance capacity to think analytically
			Think Critically	Enhance capacity to think critically
			Writing Skills	Enhance writing skills
	POLI404	Senior Seminar I	Career	The student will develop a career plan for after graduation.
			Research	Students will critically analyze research in the field and integrate it into their writing.
	POLI411	U.S. Foreign Policy	Issues	Analyze an area of US foreign policy, such as global economy or global terrorism.
			Theories	Explain and apply the analytical frameworks for understanding US foreign and national security policy-making
	POLI467	Constitutional Law and Civil Liberties	Briefs	a. Analyze and brief cases (particularly United State Supreme Court cases);
			critical thinking	g. Develop critical thinking techniques and analyze political and/or legal issues;

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			critical thinking	
			Frameworks	c. Understand constitutional frameworks for civil liberties, civil rights, and rights afforded to criminal defendants;
			Historical	d. Examine the historical evolution of constitutional doctrines, standards and tests;
			Key cases	b. Understand key cases, legal terms, clauses and chronologies in constitutional law;
			Legal reasoning	e. Analyze both early and contemporary judicial thinking and legal reasoning;
			Policies	f. Recognize important policies and other considerations related to civil rights and liberties;
			Research	j. Prepare research and writing projects related to constitutional law (which will also further your understanding of constitutional law and your development of critical thinking and legal analysis)
			Resources	i. Be familiar with resource materials for conducting research related to constitutional issues;
			systems	h. Understand the essential institutions and procedures of the federal judicial system, especially the U.S. Supreme Court;
	POLI490	Independent Study in Political Science	Valuable knowledge	Students gain valuable knowledge and skills through independent research. The specific knowledge and skills vary with the particular assignment.
	POLI499	Political Science/Public Administration Internship	Institutions	4) presenting some of the basic concepts of political science or public administration in the context of governmental, community, or non-profit institutions.
			Operations	1) providing an understanding of the operations and procedures of governmental, community, or non-profit institutions;
			Supervision	2) describing and analyzing the important aspects of supervision;

Course Owning Unit	Course ID	Course Name	Course Student Learning Outcome Name	Course Student Learning Outcome
			Supervision	
			Theory	3) providing opportunities for the students to apply various theories through projects;