Program Outcomes Compendium

Accounting

Upon successful completion of this Program, students will be able to:

• Identify and perform the major steps in the accounting cycle including recording transactions, adjusting entries, and preparing financial statements
• Explain, prepare, and analyze the income statement, statements of equity, balance sheet, and cash flow statement
• Explain Financial Accounting Standards Board (FASB) and International Accounting Standards Board (IASB) and use the FASB Accounting Standards Codification system
• Apply the major principles and assumptions of financial reporting and US generally accepted accounting principles (GAAP)
• Use financial analysis to assess the profitability of a business
• Identify the costs in managerial accounting and their usage in cost-volume-profit (CVP) analysis and the manufacturing process

Art and Design

Upon successful completion of this Program, students will be able to:

• Describe visual concepts and express them using appropriate artistic vocabulary in written and oral presentations
• Demonstrate creativity in visual, technical, and conceptual problem-solving
• Apply technical skills and competency in a wide range of art media and techniques
• Solve visual problems in a manner that reflects individual creativity, technical expertise, and an understanding of historical and contemporary art
• Demonstrate a work ethic that reflects a dedication to process and the intelligent development of a personal aesthetic
• Write and speak with clarity, think critically and analytically, and express one’s ideas about a personal artistic vision and the vision of others
• Use the critique process and self-reflection to develop a fine art professional portfolio for transfer or career development

Additional Outcomes – Area of Concentration in Art History

Upon successful completion of this concentration, students will also be able to:

• Demonstrate a broad understanding of artists, themes, theories and artwork crucial to various cultures and art historical time periods
- Demonstrate analytical skills such as observation and inductive reasoning in interpreting works of art both as formal structures and in relation to social and cultural contexts
- Respond verbally and in written format to art historical and theoretical material

**Additional Outcomes – Area of Concentration in Ceramics and Sculpture**

Upon successful completion of this concentration, students will also be able to:

- Demonstrate proficiency working with a wide range of materials, tools, techniques, and processes pertaining to ceramics and sculpture to create work from concept to finished product
- Demonstrate an understanding of design principles with an emphasis on three-dimensional design, and the ability to apply these principles to a specific aesthetic intent
- Demonstrate an understanding of the history of ceramics and sculpture This includes the history of art, craft, the relationship of ceramics to other art disciplines, and its influence on culture
- Professionally document and exhibit a body of work that demonstrates artistic voice, concept, and technical skills in ceramics or sculpture

**Additional Outcomes – Area of Concentration in Drawing and Painting**

Upon successful completion of this concentration, students will also be able to:

- Demonstrate proficiency working with a wide range of materials and tools, techniques, and processes pertaining to drawing and painting to create work from concept to finished product This includes knowledge of dry media, paint and surfaces
- Demonstrate an understanding of the principles of design, color concepts, media and formats, and the ability to apply them to a specific aesthetic intent
- Demonstrate comprehension of art with a historical and contemporary context
- Professionally document and exhibit a body of work that demonstrates artistic voice, concept, and technical skills in drawing and painting
Additional Outcomes – Area of Concentration in Graphic Design

Upon successful completion of this concentration, students will also be able to:

- Demonstrate an understanding of tools and technology, including their roles in the creation, reproduction, and distribution of visual messages. Relevant tools and technologies include drawing, printing, photography, and interactive media (film, video, computer multimedia).
- Demonstrate the use of 2D and 3D software programs including applications such as modeling, animation, illustration, video, sound, photography, print, and web authoring.
- Demonstrate the ability to solve communication problems, including the skills of problem identification, research and information gathering, analysis, generation of alternative solutions, prototyping and user testing, and evaluation of outcomes.
- Demonstrate an understanding of design history, theory, and criticism.

Additional Outcomes – Area of Concentration in Interactive and Motion Arts

Upon successful completion of this concentration, students will also be able to:

- Demonstrate hand and digital drawing, animation, video, storyboarding with imagery and narrative, and the development of 2D character design and 3D environments.
- Use 2D and 3D software programs including applications such as modeling, animation, illustration, video, sound, photography, print, and web authoring to express ideas and solve design problems.
- Identify and explain the influence of major historical and contemporary theories, works, and ideas on social, interactive, and mobile media.
- Recognize the functions, methods, vocabulary, and roles that are unique to the programmer, the designer, and the artist within the individual and collaborative design process.

Additional Outcomes – Area of Concentration in Photography and Digital Arts

Upon successful completion of this concentration, students will also be able to:

- Use tools, materials, equipment, techniques, technologies, and processes to work from concept to finished product in photography and digital arts. This includes the use of digital technologies, cameras, film, lighting, digital imaging software, and printing.
- Demonstrate the use of 2D and 3D software programs including applications such as modeling, animation, illustration, video, sound, photography, print, and web authoring.
- Demonstrate an understanding of design principles with emphasis on composition, color, and lighting.
• Demonstrate an understanding of photographic history and theory, the relationship of photography to the visual art disciplines, and its influence on culture
• Professionally document and exhibit a body of work that demonstrates artistic voice, concept, and technical skills in photography and digital arts

Additional Outcomes – Area of Concentration in Studio Arts

Upon successful completion of this concentration, students will also be able to:

• Demonstrate proficiency working with a wide range of art materials, tools, and techniques to create work from concept to finished product
• Use design principles to realize a specific aesthetic and conceptual intent
• Demonstrate comprehension of art with a historical and contemporary context
• Professionally document and exhibit a body of work that demonstrates artistic voice, concept, and technical skills

Biological Sciences

Upon successful completion of this Program, students will be able to:

• Apply principles and theories of Biology and Chemistry
• Collect, describe, and analyze data
• Communicate scientific information in a written and/or verbal format
• Utilize critical thinking whole problem solving
• Describe and utilize the techniques involved in conducting research
• Use basic laboratory instrumentation

Additional Outcomes – Area of Concentration in Environmental Science

Upon successful completion of this concentration, students will also be able to:

• Demonstrate a general understanding of the breadth and interdisciplinary nature of environmental issues
• Understand the natural environment and its relationships with human activities
• Characterize and analyze human impacts on the environment
• Integrate facts, concepts, and methods from multiple disciplines and apply to environmental problems
• Acquire practical skills for scientific problem-solving, including familiarity with laboratory and field instrumentation, computer applications, statistical, and modeling techniques
• Understand and implement scientific research strategies, including collection, management, evaluation, and interpretation of environmental data
**Business Administration**

Upon successful completion of this Program, students will be able to:

- Critically examine, analyze, and recommend logical actions based on a variety of business concepts, models, and principles
- Apply written and oral communication skills
- Apply basic computational, statistical, and quantitative reasoning skills in collecting, analyzing, and interpreting numerical information
- Utilize verbal communication skills to engage an audience
- Utilize and apply computer hardware, software, the Internet, and other technological tools to enhance reasoning skills in making business decisions
- Be able to work effectively in both leadership and support roles as part of diverse teams to achieve a variety of business-related tasks
- Apply a basic understanding of economic and accounting principles to complex business issues
- Consistently act in a professional, respectful, honest, and ethical manner and to apply ethical principles and logical reasoning to make business decisions
- Demonstrate an understanding of a global environment
- Recognize and understand trends in business (through successes and failures)
- Understand how to organize and start a business

**Additional Outcomes – Area of Concentration in Leadership and Management**

Upon successful completion of this concentration, students will also be able to:

- Demonstrate basic knowledge of the principles and concepts of entrepreneurship and management
- Demonstrate an understanding of the differences between leadership and management
- Apply functional area concepts and theories
- Describe various situational approaches to leadership and understand varying perspectives on leadership
- Analyze and apply skills of interpersonal effectiveness to everyday interaction by using observation, active listening, and questions
- Apply critical and strategic thinking to produce sound managerial decisions while taking into account relevant perspectives, research, and the impact on the communities served
- Describe strategic, ethical, and virtual forms of leadership in today’s world
**Additional Outcomes – Area of Concentration in Management**

Upon successful completion of this concentration, students will also be able to:

- Demonstrate basic knowledge of the principles and concepts of entrepreneurship and management
- Distinguish and differentiate all management styles, - domestic and international, public and private, small and large organizations
- Demonstrate understanding of operations management as an integral component of business organizations
- Apply critical and strategic thinking to produce sound managerial decisions while taking into account relevant perspectives, research, and the impact on the communities served

**Additional Outcomes – Area of Concentration in Marketing**

Upon successful completion of this concentration, students will also be able to:

- Demonstrate understanding of how the elements of a marketing strategy work together and how the marketing concept fits into organizational planning and development
- Demonstrate understanding of markets and market behavior, external market forces, relationships to basic economic concepts, and globalism in satisfying needs and wants
- Demonstrate understanding of current and emerging trends in marketing, including direct and interactive marketing, technology-based personalization, one-to-one marketing, and e-commerce
- Demonstrate an understanding of consumer behaviors, social media trends, and implementation of marketing strategies

**Business Administration Transfer**

Upon successful completion of this Program, students will be able to:

- Critically examine, analyze, and recommend logical actions based on a variety of business concepts, models, and principles
- Apply written and oral communication skills
- Apply basic computational, statistical and quantitative reasoning skills in collecting, analyzing, and interpreting numerical information
- Utilize verbal communication skills to engage an audience
- Utilize and apply computer hardware, software, the Internet, and other technological tools to enhance reasoning skills in making business decisions
- Work effectively in both leadership and support roles as part of diverse teams to achieve a variety of business-related tasks
• Apply a basic understanding of economic and accounting principles to complex business issues
• Consistently act in a professional, respectful, honest, and ethical manner and to apply ethical principles and logical reasoning to make business decisions
• Demonstrate an understanding of a global environment
• Recognize and understand trends in business (through successes and failures)
• Understand how to organize and start a business

Chemistry

Upon successful completion of this Program, students will be able to:

• Apply principles and theories in the basic areas of chemistry
• Collect and perform qualitative/quantitative chemical analyses of data
• Communicate scientific information through written and/or verbal formats
• Utilize critical thinking to identify and solve problems
• Describe and utilize the techniques applicable to chemistry research projects
• Use basic laboratory instrumentation for both basic and organic chemistry processes

Civil Engineering

Upon successful completion of this Program, students will be able to:

• Demonstrate an understanding of kinematics of a particle and a rigid body
• Demonstrate an understanding of kinetics concerning force and acceleration, work and energy, impulse and momentum for a particle and a rigid body
• Demonstrate an understanding of, and application for, force vectors
• Demonstrate an understanding of equilibrium of a particle and a rigid body
• Demonstrate an understanding of the basic concepts of thermodynamics
• Demonstrate an understanding of mass and energy balance analysis for closed and open systems
• Demonstrate an understanding of gas power cycles, vapor cycles, and combined power cycles
• Demonstrate an understanding of stress and strain
• Demonstrate an understanding of mechanical properties of materials
• Demonstrate an understanding of axial loading, torsion, bending and transverse shear
• Demonstrate an understanding of stress and strain transformations
• Design and conduct experiments, as well as analyze and interpret data
• Apply the engineering design process
• Function on multidisciplinary teams
• Communicate in an effective and professional manner both verbally and in writing
Computer Science

Upon successful completion of this program, students will be able to:

- Analyze a problem; then identify and describe the computing requirements appropriate to its solution
- Create or evaluate computer-based systems or processes as a solution for desired results or outcomes
- Apply algorithmic principles and computer science theory in modeling problems and processes in the physical world
- Communicate and function effectively on teams working towards a common goal
- Understand legal and ethical issues associated with computing

Computer Information Systems – Programming

Upon successful completion of this program, students will be able to:

- Understand basic networking theory, network design, maintenance, security and troubleshooting
- Set up network resources through multiple versions of software
- Understand basic data communications technology
- Analyze and develop programs using object oriented programming and design
- Understand legal and ethical issues associated with computing

Criminal Justice

Upon successful completion of this program, students will be able to:

- Critically evaluate theories about crime and criminal behavior
- Critically evaluate laws and court decisions about crime and criminal behavior
- Explain the organization and administration of the criminal justice system
- Explain the role of research in criminal justice
- Analyze how personal values may conflict with the ethical standards for criminal justice professionals
- Analyze how ethical principles and ethical codes of conduct apply to criminal justice professionals
Cybersecurity

Upon successful completion of this program, students will be able to:

- Demonstrate proficiency in a programming language
- Configure and secure Windows and Unix/Linux server and clients, routers, firewalls, email, networks, and other network security appliances and software
- Demonstrate an understanding of networking standards, protocols, and the OSI model
- Identify and describe security measures for different types of network attacks, operating systems, software, databases, websites, social engineering and physical security
- Demonstrate an understanding of computer forensics, data acquisition, analysis, tools, and crime scene investigation and documentation requirements for corporate or legal testimony
- Explain the function of cryptography and encryption to secure data, public key infrastructure, hashing, and digital signatures along with other data protection techniques
- Create an effective security policy and disaster recovery plan, addressing business requirements related to confidentiality, integrity and availability

Digital Imaging

Upon successful completion of this program, students will be able to:

- Demonstrate planning and production of digital images
- Demonstrate the ability to meet deadlines
- Use industry standard technology in the execution of digital images
- Produce a portfolio of digital images

Early Childhood Education

Upon successful completion of this program, students will be able to:

- Describe the theories and principles of child development and learning and apply the theories and principles to their classroom teaching
- Identify the policies, issues, trends, and historical events in the field of early childhood education
- Demonstrate understanding of content areas and apply developmentally appropriate approaches to enhance children’s learning and development
- Identify and explain the models of classroom and behavior management
- Analyze and reflect upon teaching practices for the purpose of improving and differentiating instruction for students
• Demonstrate progress toward mastering the Interstate Teacher Assessment and Support Consortium (InTASC) Standards
• Identify community resources serving students with special needs and their families
• Identify and conduct themselves as early childhood professionals who use ethical guidelines and National Association for the Education of Young Children standards
• Demonstrate excellent written, verbal, critical thinking, and problem-solving skills
• Demonstrate progress toward mastery of the Maryland Technology Standards

Electrical Engineering

Upon successful completion of this program, students will be able to:

• Design and conduct experiments, as well as analyze and interpret data
• Understand and apply the engineering design process
• Function on multidisciplinary teams
• Demonstrate an understanding of units, engineering notations, and circuit terminology
• Demonstrate an understanding of Ohm’s law, Kirchhoff’s laws, and the Wye-Delta transformations
• Demonstrate an understanding of AC and DC circuit analysis
• Demonstrate an understanding of Laplace transform analysis technique
• Demonstrate an understanding of Boolean algebra and discrete combinational gates
• Analyze and design synchronous sequential circuits
• Communicate in an effective and professional manner both verbally and in writing

Electronic Health Records Specialist

Upon successful completion of this program, students will be able to:

• Demonstrate the entry level knowledge, communication skills, and abilities associated with electronic medical records, including data collection, record privacy, maintenance, and retention
• Take the Electronic Health Records Specialist Certification (CEHRS™), offered through the National Healthcareer Association
• Continue their education towards the Associate of Applied Science in Health Information Technology
Elementary Education

Upon successful completion of this program, students will be able to:

- Identify major historical events in education and analyze the impact of those events with current educational trends
- Identify the policies, issues, trends, and historical events in the field of elementary education
- Identify the psychological, cognitive, emotional, and physical characteristics of typically developing children and adolescents, with specific consideration to children with disabilities
- Identify the current and inclusive philosophies for differentiating instruction to analyze, improve, and facilitate instruction for diverse learners
- Demonstrate progress toward mastering the Interstate Teacher Assessment and Support Consortium (InTASC) Standards
- Develop excellent written, verbal, critical thinking, and problem solving skills
- Demonstrate progress toward mastering the INTASC Standards
- Demonstrate understanding of content areas and apply developmentally appropriate approaches to enhance children’s learning and development

Engineering

Upon successful completion of this program, students will be able to:

- Apply knowledge of mathematics, science, and engineering
- Design and conduct experiments
- Conduct tests for chemical components or strength of materials
- Determine forces acting on a body
- Analyze and interpret data
- Apply the engineering design process
- Function on multidisciplinary teams
- Identify the professional and ethical responsibilities of engineers
- Identify, formulate, and solve engineering problems
- Use the techniques, skills, and modern engineering tools necessary for engineering practice
- Communicate in an effective and professional manner both verbally and in writing
Additional Outcomes – Area of Concentration in Aerospace Engineering

Upon successful completion of this concentration, students will also be able to:

- Demonstrate an understanding of kinematics of a particle and a rigid body
- Demonstrate an understanding of kinetics concerning force and acceleration, work and energy, impulse and momentum for a particle and a rigid body
- Demonstrate an understanding and application of force vectors
- Demonstrate an understanding of equilibrium of a particle and a rigid body
- Demonstrate an understanding of the basic concepts of thermodynamics
- Demonstrate an understanding of mass and energy balance analysis for closed and open systems
- Demonstrate an understanding of gas power cycles, vapor cycles, and combined power cycles
- Demonstrate an understanding of stress and strain
- Demonstrate an understanding of mechanical properties of materials
- Demonstrate an understanding of axial loading, torsion, bending and transverse shear
- Demonstrate an understanding of stress and strain transformations

Additional Outcomes – Area of Concentration in Chemical Engineering

Upon successful completion of this concentration, students will also be able to:

- Demonstrate an understanding of modern atomic theory, atomic structure, and the mole concept
- Write balanced chemical equations and solve equation stoichiometry problems
- Explain the trends of various atomic properties in the periodic table
- Demonstrate an understanding of the principles of chemical kinetics
- Demonstrate an understanding of the principles of chemical equilibrium
- Demonstrate an understanding of the bonding, structure, preparations, and reactions of organic compounds

Additional Outcomes – Area of Concentration in Computer Engineering

Upon successful completion of this concentration, students will also be able to:

- Demonstrate an understanding of units, engineering notations, and circuit terminology
- Demonstrate an understanding of Ohm’s law, Kirchhoff’s laws, and the Wye-Delta transformations
- Demonstrate an understanding of AC and DC circuit analysis
- Demonstrate an understanding of Laplace transform analysis technique
• Demonstrate an understanding of Boolean algebra and discrete combinational gates
• Analyze and design synchronous sequential circuits
• Demonstrate a basic understanding of computer programming

**Equine Studies**

Upon successful completion of this program, students will be able to:

• Demonstrate competence, certainty, and self-assurance when working with horses
• Apply safe handling techniques, basic care and maintenance techniques, and basic first aid in working with horses
• Understand the skeletal, muscular, circulatory, respiratory, digestive, urinary, nervous, and endocrine systems of the horse
• Evaluate a horse’s body condition, surroundings, work load, and other factors to develop a proper diet regimen for the best care of the horse
• Take equine vital signs and recognize symptoms of poor health, disease, and infection
• Demonstrate the skills necessary for basic horse care and the treatment and prevention of common horse ailments
• Understand conformation and selection of horses
• Apply pasture management techniques such as seeding, poisonous weed control, safe fertilization, and determining pasture rotation schedules
• Apply equine facilities management techniques for stable design, proper hay and grain storage, pasture and turn out options, and indoor/outdoor riding rings
• Apply skills learned regarding communication, regulation, marketing, staff management, and sales and service in running an equine business

**Equine Studies – Management**

Upon successful completion of this program, students will be able to:

• Demonstrate competence, certainty, and self-assurance when working with horses
• Apply safe basic care and maintenance techniques, in working with horses and the selection of horses
• Demonstrate basic knowledge of business systems, management, human resources and marketing
• Apply equine facilities management techniques for stable design, proper hay and grain storage, pasture and turn out options, and indoor/outdoor riding rings
• Apply skills learned regarding communication, regulation, staff management, and sales and service in running an equine business
Exercise Sciences

Upon successful completion of this program, students will be able to:

- Identify risk factors associated with physical activity, contraindications to exercise testing and physical activity, and identify proper referral protocols and resources for various populations of varied prior medical histories
- Possess the knowledge and skills needed to successfully complete national industry leading certification exams (ACSM, ACE, NSCA, NASM)
- Display knowledge of the human body systems as well as understanding of the acute and chronic effects within the body resulting from physical activity, everyday repetitive motion and exercise
- Demonstrate professional demeanor and skills related to rapport building, interpersonal skills, professional integrity and responsibility, independent thinking and problem solving
- Assess, design, and implement safe and effective exercise prescriptions to improve health and performance
- Demonstrate an ability to modify exercise prescriptions for various populations and conditions

Fire Science Technology

Upon successful completion of this program, students will be able to:

- Demonstrate the entry level knowledge, communication skills, written and verbal, and the professional abilities associated with the field of fire science with the ability to incorporate field strategies and tactics associated with various fire situations and to effectively operate a fire pumper or aerial apparatus
- Demonstrate the ability to function as a fire officer within a fire service program, including the ability to perform effectively as a safety officer on the scene of an emergency, to recognize and mitigate various hazardous materials situations and to work with a team to perform fire suppression techniques specific to the incident while maintaining a full situational awareness to rescue, HAZMAT, investigation, and safety issues
- Work effectively within the organizational structure of a company and manage a company level training program
- Demonstrate an understanding and incorporate into their practice the laws and ordinances related to fire prevention
- Provide field management of a patient at the EMT level
General Studies

Upon successful completion of this program, students will be able to:

- Demonstrate college-level competency in critical and creative thinking skills and problem solving strategies
- Identify, categorize and distinguish among elements of ideas, concepts, theories and/or practical approaches to standard problems
- Identify, categorize, and evaluate multiple information resources
- Demonstrate accurate and effective explanatory writing skills
- Demonstrate the ability to make effective use of writing-related computer technology
- Locate, collect, and organize evidence on research topics
- Apply citation standards for multiple information resources
- Analyze, evaluate, and/or criticize various academic disciplines and/or regional/national/global issues
- Demonstrate effective public speaking skills and an ability to evaluate their own public speaking skills
- Demonstrate an understanding of mathematical principles and methods
- Demonstrate the ability to perform accurate calculations and symbolic operations
- Demonstrate the ability to determine or calculate the solution to a problem through the use of computer technology
- Demonstrate college-level competency in computer literacy and in the ability to work productively with information technology
- Demonstrate an awareness of ethical behavior
- Demonstrate an understanding of cultural diversity
- Demonstrate an understanding of, and appreciation for, artistic expression
- Demonstrate an understanding of, and appreciation for, health and wellness issues
- Demonstrate an understanding of, and appreciation for, the physical and social environment

Additional Outcomes – Area of Concentration in English

Upon successful completion of this concentration, students will also be able to:

- Analyze texts critically
- Place literary works in their historical and cultural contexts
- Approach texts with knowledge of various disciplines within and outside of the humanities
- Write informatively, analytically, and persuasively
- Conduct research in literature, composition, and related fields
- Effectively integrate source materials as evidence and context
- Use existing and emerging technologies effectively
- Present ideas coherently, in both writing and in speech
Additional Outcomes – Area of Concentration in Foreign Languages

Upon successful completion of this concentration, students will also be able to:

- Demonstrate proficiency in reading, writing, speaking and listening to the specific language studied
- Demonstrate comprehension based on authentic written materials
- Accurately explain the meanings of language terms
- Accurately and fluently present oral information, concepts, and ideas in a cohesive manner
- Interpret how political, social, economic, geographic, and/or linguistic factors influence components of the target culture
- Analyze the significance of artifacts created within the target culture as contributions made to the history of humanity
- Identify a diverse range of literature in their historical, social and political contexts
- Apply critical thinking to interpret literary texts

Additional Outcomes – Area of Concentration in History

Upon successful completion of this concentration, students will also be able to:

- Demonstrate a basic knowledge of the history of the United States, Europe, and one other geographic region (Africa, Asia, or Latin America)
- Demonstrate a detailed knowledge of the history of the specific chronological or thematic areas they choose to study
- Write a historical research paper and support it with historical evidence
- Evaluate historical evidence in a variety of primary and secondary sources
- Assess the significance of events, ideas, or artifacts in their historical context
- Distinguish cause and effect and recognize multiple causalities in history
- Recognize and evaluate different historical interpretations

Additional Outcomes – Area of Concentration in Philosophy

Upon successful completion of this concentration, students will also be able to:

- Demonstrate knowledge of major figures in Philosophy
- Demonstrate knowledge of major branches in Philosophy
- Demonstrate knowledge of terminology particular to a branch or tradition within philosophy
- Express philosophical ideas effectively
- Construct philosophical arguments
- Analyze arguments in philosophical discourse
• Identify underlying presuppositions of a philosopher's argumentative discourse
• Raise questions and frame philosophical problems introduced by texts

Additional Outcomes – Area of Concentration in Political Science

Upon successful completion of this concentration, students will also be able to:

• Demonstrate competency with the conceptual frameworks of political science generally
• Demonstrate competency with conceptual frameworks of American politics and Government
• Demonstrate competency with conceptual frameworks of comparative politics and government
• Demonstrate the ability to conduct research
• Demonstrate an understanding of leadership qualities
• Assess the ethical issues associated with decisions in public affairs

Additional Outcomes – Area of Concentration in Sociology

Upon successful completion of this concentration, students will also be able to:

• Apply scientific methodology to the study of sociology
• Evaluate the quality of quantitative and qualitative research in sociology
• Demonstrate familiarity with the major concepts, theories, and theorists in sociology
• Apply sociological theories and methods to real world situations
• Conceptualize the diversity of today’s society and in our past
• Recognize the vastness of human diversity

Government Contracting

Upon successful completion of this program, students will be able to:

• Identify and explain the phases of the federal purchasing process including inventory control, price determination, vendor selection, negotiation techniques, and simplified acquisition procedures
• Identify and explain federal acquisition processes, practices, and management including regulations, policies, socioeconomic goals, contract types, contract solicitations, awards, and administration
• Apply industry standard personnel concepts from recruitment through termination consistent with labor laws and standards
• Develop proposals that obtain fair and reasonable prices utilizing the techniques of cost and price analysis, life-cycle costing, return on investment, and cost-benefit analysis
• Explain the legal and ethical issues encountered during the procurement process and how they relate to federal acquisition reform
• Explain Department of Defense acquisition life cycle phases and earned value management
• Apply Defense acquisition planning, market research, competition requirements, and defense acquisition of commercial items
• Effectively handle contract protests, disputes, appeals, and terminations

Healthcare Sciences

Upon successful completion of this program, students will be able to:

• Demonstrate the entry level knowledge, and written and verbal communication skills and abilities associated with many disciplines within the field of health care
• Apply a discipline specific skill set to a wider range of opportunities within the field of health care
• Transfer to a baccalaureate program of study in the field of health care

Health Information Technology

Upon successful completion of this program, students will be able to:

• Develop skills necessary to utilize health information technology for knowledge management and compliance with legal and regulatory requirements
• Identify issues related to the implementation of the electronic health record
• Describe key legal, regulatory, and ethical issues related to the utilization of health information technology
• Recognize the language, terminology, ontology, acronyms, coding, and classification systems of healthcare and health informatics
• Utilize databases and spreadsheets to consolidate, manipulate, integrate, and display health data
• Apply information technology to improve healthcare quality, safety, and effectiveness
• Upon successful completion of this program, students are eligible to take the Registered Health Information Technician Certification offered through the American Health Information Management Association
Horticultural Science

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of the classification, structure, reproduction, and propagation of plants
- Demonstrate an understanding of cultural conditions necessary to support plants and distinguish between appropriate plant choices for sun and shade and various landscape uses
- Identify plants which are native, non-native, and invasive in the Mid-Atlantic Region
- Demonstrate an understanding of the composition, fertility, and biology of soil
- Demonstrate an understanding of the classification of soils, plant nutrients and soil microorganisms
- Use tools and technology for evaluating the nutrient content of the soil and identify organic and inorganic supplements for amending soil structure
- Demonstrate an understanding of the diversity of materials, equipment, preparations, and methods of installation used in landscape construction
- Use basic skills for estimating and completing a landscape assignment, and identify the financial and legal business concerns involved in a landscaping assignment

Mathematics

Upon successful completion of this program, students will be able to:

- Effectively use technology, such as Maple and TI-Calculators, to assist in the solving of problems and presentation of results
- Communicate math effectively both orally and in writing
- Find limits, derivatives and integrals of algebraic and transcendental functions and use them to solve problems
- Use the techniques of integration to solve problems, express curves in parametric and polar form, and express functions as a Taylor series
- Use vectors in 2-, 3-, and higher dimensions in multiple settings, describe curves of surfaces in space, take the limits of functions of several variables, calculate partial derivatives, evaluate multiple integrals to calculate areas, volumes, masses and centers of mass for standard plane regions and solids, compute and apply line integrals, Green's Theorem, and Stokes Theorem
- Analyze and solve first and second order differential equations, both linear and nonlinear, and systems of differential equations using methods such as phase portraits, slope fields, separation of variables, substitution, Laplace transforms, series representations and eigenvalues, and apply these methods in mathematical modeling
- Perform matrix algebra, describe vectors and vector spaces, compute determinants, eigenvalues and eigenvectors, understand projections, utilize linear transformations, and solve systems of linear equations
- Solve problems involving measures of central tendency, measures of variation, graphical representations of data, least squares regression, correlation, probability, probability distributions, sampling techniques, parameter estimation, and hypothesis testing

**Mechanical Engineering**

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of kinematics of a particle and a rigid body
- Demonstrate an understanding of kinetics concerning force and acceleration, work and energy, impulse and momentum for a particle and a rigid body
- Demonstrate an understanding of, and application for, force vectors
- Demonstrate an understanding of equilibrium of a particle and a rigid body
- Demonstrate an understanding of the basic concepts of thermodynamics
- Demonstrate an understanding of mass and energy balance analysis for closed and open systems
- Demonstrate an understanding of gas power cycles, vapor cycles, and combined power cycles
- Demonstrate an understanding of mechanical properties of materials
- Demonstrate an understanding of axial loading, torsion, bending and transverse shear
- Demonstrate an understanding of stress and strain transformations

**Music**

Upon successful completion of this program, students will be able to:

- Demonstrate proficiency at the intermediate level on their main instrument or vocal part
- Demonstrate an understanding of the basic principles of tonal harmony
- Demonstrate functional proficiency in aural theory (ear training) and sight singing
- Demonstrate proper use of basic hardware and software tools of music technology

**Additional Outcomes – Area of Concentration in Voice**

Upon successful completion of this concentration, students will also be able to:

- Demonstrate knowledge of vocal repertoire
**Additional Outcomes – Area of Concentration in Audio Technology**

Upon successful completion of this concentration, students will also be able to:

- Demonstrate proficiency with recording techniques

**Additional Outcomes – Area of Concentration in Music Education**

Upon successful completion of this concentration, students will also be able to:

- Demonstrate an understanding of classroom teaching in the music field

**Nursing**

Upon successful completion of this program, students will be able to:

- Provide safe and competent nursing care that acknowledges and encompasses the uniqueness, dignity, diversity, freedom and holistic well-being of each individual within their community and within the context of the Neuman Systems Model
- Communicate professionally, effectively, and appropriately with clients, families, health care team members and peers, while promoting human dignity, patient advocacy and a spirit of inquiry
- Demonstrate the appropriate application and integration of evidence, critical thinking, nursing concepts, and clinical judgment, in the clinical decision making process, as they practice as a nurse within the conceptual framework of nursing practice
- Embrace the fundamental core values of nursing identified by NLN: caring; diversity; ethics; excellence; holism; integrity; and patient-centeredness
- Take the NCLEX-RN

**Paralegal Studies**

Upon successful completion of this program, students will be able to:

- Demonstrate a professional attitude toward work, learning, and responsibilities; be dependable in attendance, punctuality, and completion of tasks
- Communicate effectively orally and in writing
- Demonstrate legal knowledge
- Apply problem-solving and technical skills
  Produce an adequate amount of work product, accurately and timely with acceptable quality
- Utilize legal terminology competently
Describe the American legal system including sources of American law, the judicial system, civil and criminal procedure, and substantive areas of law such as contracts, torts, constitutional law, employment, and other areas

Identify the functions of law in American society, how they relate to corresponding legal research material, and the legislative process, judicial structure and system

Utilize their academic success to effectively continue their studies toward a certificate or bachelor’s degree

Express an understanding of their ethical responsibility and role under the supervision of attorneys

Demonstrate a professional attitude toward work, learning and the completion of tasks

Paramedic

Upon successful completion of this program, students will be able to:

- Demonstrate the ability to assign priority levels of emergency treatment to patients and effectively perform all basic and advanced interventions as part of a treatment plan intended to mitigate the emergency, provide symptom relief, and improve overall health of the patient and evaluate the plan and treatment and disposition of the patient accordingly
- To function as a team leader of a routine, single patient advanced life support call
- Perform in cooperation with medical direction, the need for emergency medical care including the recognition of life-threatening disorders such as airway and respiratory problems, cardiac dysrhythmias, traumatic injuries, and mental health emergencies, to an appropriate care facility by the most effective means of transportation
- Demonstrate with proficiency the management of cardiac arrest and peri-arrest states and apply comprehensive knowledge of the causes and pathophysiology into the management of shock, respiratory failure or arrest with an emphasis on early intervention to prevent cardiac arrest
- Communicate effectively, professionally and in a culturally sensitive manner, with patients, colleagues and other health care professionals, in all written and oral communications
- Perform with safety and efficiency all psychomotor skills in accordance with the National EMS Scope of Practice and the State of Maryland Scope of Practice at the paramedic level
- Perform and direct routine maintenance and preparation of emergency care equipment and supplies at the beginning and end of each shift and after every response
Personal Trainer/Fitness Manager

Upon successful completion of this program, students will be able to:

- Demonstrate the knowledge and skills necessary to practice as an entry level personal trainer, including a professional demeanor
- Assess, design, and implement safe and effective exercise prescriptions to improve health and performance
- Demonstrate the knowledge and skills needed to successfully complete national industry leading certification exams (ACSM, ACE, NSCA, NASM) as an entry level personal trainer

Photography – Basic

Upon successful completion of this program, students will be able to:

- Demonstrate a basic understanding of industry standard equipment, techniques, and technologies specific to the practice of photography
- Demonstrate the ability to create a portfolio of photographic images

Photography – Lab

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of industry standard equipment, techniques, and technologies specific to the practice of photo editing
- Understand basic lighting techniques for both natural and constructed scenes on location or in a studio setting
- Communicate with a visual vocabulary to interpret photographic works and design principles appropriate to the practice of image-based media
- Demonstrate the ability to create a professional portfolio of photographic images

Photography – Portfolio Production

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of industry standard equipment, techniques, and technologies specific to the practice of photography
- Understand basic lighting techniques for both natural and constructed scenes on location or in a studio setting
- Achieve a basic understanding of the historical, political, and social context in which
photographic images are created and viewed

• Communicate with a visual vocabulary to interpret photographic works and design principles appropriate to the practice of image-based media
• Demonstrate the ability to create a professional portfolio of photographic images

Photography – Professional

Upon successful completion of this program, students will be able to:

• Demonstrate an understanding of industry standard equipment, techniques, and technologies specific to the practice of photography
• Demonstrate an understanding of the historical, political and social context in which photographic images are created and viewed
• Interpret contemporary theory and forms and the contextualization of photography within the larger world of the arts
• Critically analyze and evaluate examples of photographic art
• Execute efficient lighting techniques for both natural and constructed scenes on location or in a studio setting
• Demonstrate a thorough knowledge of industry standard equipment, techniques, and workflows specific to the practice of photography
• Achieve an understanding of the historical, political, and social context in which photographic images are created and viewed
• Communicate with a visual vocabulary to interpret photographic works, theory, and design principles appropriate to the practice of image-based media in both the fine art and commercial fields
• Develop a branding identity package and a professional photography portfolio that showcases technical skills and individual vision

Photography – Studio

Upon successful completion of this program, students will be able to:

• Demonstrate an understanding of industry standard equipment, techniques, technologies specific to the practice of studio photography
• Demonstrate an understanding of the historical, political and social context in which photographic images are created and viewed
• Critically analyze and evaluate examples of photographic art
• Demonstrate the ability to create a professional portfolio of studio photography images
Physical Sciences

Upon successful completion of this program, students will be able to:

- Demonstrate a general understanding of the breadth and interdisciplinary nature of the fields included in the physical sciences
- Understand the physical environment and its relationships with human activities
- Apply chemical, mathematical, and physical principles to the study of climate, oceans and meteorology
- Demonstrate an understanding of scientific method, data collection and analysis, use of laboratory and field instrumentation, computer applications, statistical and modeling techniques

**Additional Outcomes – Area of Concentration in Geology**

Upon successful completion of this concentration, students will also be able to:

- Apply principles and theories of geologic analysis to identify and categorize the earth’s physical structures
- Utilize critical thinking to examine geologic phenomena
- Describe the development of the earth’s formative processes
- Identify, collect, and analyze data
- Use basic field and laboratory instrumentation to perform calculations, tests, and techniques involved in conducting geological research
- Communicate scientific information in a written and/or verbal format

**Additional Outcomes – Area of Concentration in Meteorology**

Upon successful completion of this concentration, students will also be able to:

- Apply principles and theories of math, physics, chemistry and environmental studies to the study of meteorology
- Integrate concepts of local and global climate as well as ocean studies to their relationship with weather phenomena
- Utilize critical thinking to identify, collect and analyze data
- Perform calculations, tests and techniques involved in the conduction of meteorological research
- Use basic field and laboratory instrumentation
- Communicate scientific information in a written and/or verbal format
Additional Outcomes – Area of Concentration in Ocean Studies

Upon successful completion of this concentration, students will also be able to:

- Apply principles and theories of biology, physics and chemistry to ocean and climate phenomena
- Utilize critical thinking to identify, collect and analyze data
- Describe and utilize the techniques involved in conducting research
- Use basic field and laboratory instrumentation
- Communicate scientific information in a written and/or verbal format

Physical Therapist Assistant

Upon successful completion of this program, students will be able to:

- Demonstrate the entry level knowledge, clinical skills and professional abilities of a physical therapist assistant in the delivery of interventions, in all communications, during education activities, and during resource management activities
- Provide competent patient care under the direction and supervision of a licensed physical therapist, in an ethical, legal, safe and effective manner in a variety of healthcare settings
- Integrate the behavioral expectation of altruism, caring and compassion, cultural competence, duty, integrity, PT/PTA collaboration and social responsibility into professional practice
- Manage an effective transition from the educational program to a career as a licensed physical therapist assistant, including a plan for continuous professional competence and lifelong learning

Physics

Upon successful completion of this program, students will be able to:

- Demonstrate a firm understanding of the principles of physics and the ability to apply these principles to problems of both fundamental and practical interest
- Utilize knowledge of mathematics to solve applied problems
- Recognize basic connections of all of the scientific disciplines
- Design and conduct experiments
- Analyze and interpret data
- Identify, formulate, and solve technical problems
Practical Nursing

Upon successful completion of this program, students will be able to:

- Provide safe and competent nursing care at the LPN level, while promoting human dignity, integrity, and self-determination
- Communicate effectively and appropriately with clients, families, health care team members and peers while promoting human dignity and patient advocacy
- Demonstrate the application of critical thinking and nursing concepts in the clinical decision making process, as they practice as a practical nurse within the conceptual framework of practical nursing practice
- Embrace the fundamental core values of nursing identified by NLN: caring; diversity; ethics; excellence; holism; integrity; and patient-centeredness
- Take the NCLEX-PN

Pre-Med/Dental

Upon successful completion of this program, students will be able to:

- Demonstrate the entry level knowledge, and written and verbal communication skills and abilities associated with many disciplines within the field of health care
- Transfer to a baccalaureate program of study in the field of health care

Psychology

Upon successful completion of this program, students will be able to:

- Demonstrate knowledge in learning theory, cognition, and memory
- Demonstrate knowledge of sensation and perception, as it relates to psychology
- Demonstrate knowledge in the areas of clinical and abnormal psychology as well as personality theory
- Demonstrate knowledge of social and developmental psychology
- Demonstrate knowledge of basic research methods
- Use basic statistics to test hypotheses and correctly interpret the results of their analyses
- Demonstrate knowledge of ethical guidelines within the context of academic and professional psychology
Public Health

Upon successful completion of this program, students will be able to:

- Demonstrate the entry level knowledge, and written and verbal communication skills and abilities associated with public health
- Apply the acquired skills and knowledge to practice in an entry-level public health position
- Transfer to a baccalaureate program of study with public health generalist or specialized bachelor's degree programs including health education, health administration, and/or environmental health

Secondary Education (AAT)

Upon successful completion of this program, students will be able to:

- Identify major historical events in education and analyze the impact of those events with current educational trends
- Identify the policies, issues, trends, and historical events in the field of secondary education
- Identify the psychological, cognitive, emotional, and physical characteristics of typically developing children and adolescents, with specific consideration to disabilities and cultural and linguistic diversity
- Demonstrate progress toward mastery of the Maryland Technology Standards
- Identify the current and inclusive philosophies for differentiating instruction to analyze, improve, and facilitate instruction for diverse learners
- Demonstrate progress toward mastering the Interstate Teacher Assessment and Support Consortium (InTASC) Standards
- Develop excellent written, verbal, critical thinking, and problem solving skills

Additional Outcomes – Area of Concentration in Chemistry

Upon successful completion of this concentration, students will also be able to:

- Demonstrate an understanding of chemistry and the ability to apply developmentally appropriate approaches to enhance children’s learning and development
- Demonstrate proficiency in the application of chemistry through the level of organic chemistry
Additional Outcomes – Area of Concentration in English

Upon successful completion of this concentration, students will also be able to:

- Demonstrate an understanding of the various components of English and the ability to apply developmentally appropriate approaches to enhance children’s learning and development

Additional Outcomes – Area of Concentration in Mathematics

Upon successful completion of this concentration, students will also be able to:

- Demonstrate an understanding of the various components of mathematics and the ability to apply developmentally appropriate approaches to enhance children’s learning and development
- Demonstrate proficiency in the application of mathematics through the level of multivariable calculus

Additional Outcomes – Area of Concentration in Physics

Upon successful completion of this concentration, students will also be able to:

- Demonstrate an understanding of the various components of physics and the ability to apply developmentally appropriate approaches to enhance children’s learning and development
- Demonstrate proficiency in the application of mathematics through the level of general calculus physics III

Simulation Design and Gaming

Upon successful completion of this program, students will be able to:

- Vocalize and document critical remarks in regards to a project's quality, aesthetics, and basic requirements
- Develop a production process to complete consistent quality designs in an appropriate amount of time
- Demonstrate the ability to utilize a variety of industry standard hardware and software to produce aesthetically pleasing designs
- Produce two-dimensional and three-dimensional content that is optimized for animation, film, or interactive media
- Develop basic to intermediate-level computer code that is appropriate for multimedia and interactive presentations
- Create a portfolio that demonstrates solid foundational art skills as well as intermediate-level technical knowledge
Social Work

Upon successful completion of this program, students will be able to:

- Utilize their academic success to effectively continue their studies toward a certificate or bachelor’s degree
- Express an understanding of their ethical responsibility and role under the supervision of individuals in the profession
- Demonstrate a professional attitude toward work, learning and the completion of tasks
- Apply critical thinking skills within the context of professional social work practice
- Understand the value base of the profession and its ethical standards and principles, and practice accordingly
- Understand and interpret the history of the social work profession and its contemporary structures and issues
- Use theoretical frameworks supported by empirical evidence to understand individual development and behavior across the life span and the interactions among individuals and between individuals and families, groups, organizations, and communities
- Evaluate research studies, apply research findings to practice, evaluate their own practice interventions, and assist in conducting program evaluation/ research in line with generalist social work practice
- Practice without discrimination and with respect, knowledge, and skills related to clients’ age, class, color, culture, disability, ethnicity, family structure, gender, marital status, national origin, race, religion, sex, and sexual orientation
- Use communication skills differentially across client populations, colleagues, and communities

Supply Chain Management

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of the concepts and practices used in financial accounting
- Demonstrate an understanding of the major functional areas of business and our economic systems including management, human resources, marketing, production, and operations and information
- Use multiple operating systems commonly found in the information technology field
- Apply skills learned in the planning and management of material flows and related information in both public and private sector organizations
- Apply a total systems approach to managing activities involved in physically moving raw materials, inventory, and finished goods from the point of origin to point of use or consumption
- Demonstrate an understanding of the translation of product and service requirements into facilities, procedures, and operating organizations
• Apply the processes of managing the entire lifecycle of a product from its conception, design and manufacture, to its service and disposal

**Theatre Performance/Acting**

Upon successful completion of this program, students will be able to:

• Demonstrate an understanding of the genres of theatre
• Demonstrate a knowledge of plays and playwrights throughout history
• Demonstrate an ability to portray various characters
• Demonstrate an ability to analyze and interpret major theatre works for the stage

**Transportation and Logistics – Commercial Transportation**

Upon successful completion of this program, students will be able to:

• Operate a commercial motor vehicle safely
• Control and safely maneuver the vehicle in various traffic situations
• Demonstrate knowledge of laws relating to the transportation industry
• Follow established procedures for pre-trip inspections
• Apply proper logbook procedures and rules
• Recognize, avoid, or solve potential hazardous situations related to truck driving

**Transportation and Logistics – Government Logistics**

Upon successful completion of this program, students will be able to:

• Identify and explain the phases of the federal purchasing process including inventory control, price determination, vendor selection, negotiation techniques, and simplified acquisition procedures
• Compare and evaluate transportation systems
• Identify and discuss key elements of the public transportation policy environment
• Apply skills learned in the planning and management of material flows and related information in both public and private sector organizations
• Apply a total systems approach to managing activities involved in physically moving raw materials, inventory, and finished goods from the point of origin to point of use or consumption
• Demonstrate an understanding of the translation of product and service requirements into facilities, procedures, and operating organizations
• Apply the processes of managing the entire lifecycle of a product from its conception, design and manufacture, to its service and disposal
• Apply basic computational, statistical and quantitative reasoning skills in collecting, analyzing, and interpreting numerical information
• Utilize verbal communication skills to engage an audience

Transportation and Logistics – Transportation Management

Upon successful completion of this program, students will be able to:

• Analyze and discuss transportation management issues from a system-level perspective
• Compare and evaluate transportation systems
• Identify and discuss key elements of the public transportation policy environment
• Demonstrate a basic understanding of commonly used information technology applications used by the transportation industry
• Apply basic computational, statistical and quantitative reasoning skills in collecting, analyzing, and interpreting numerical information
• Utilize verbal communication skills to engage an audience
• Evaluate transportation problems and effectively develop and present actionable solutions

Video Production

Upon successful completion of this program, students will be able to:

• Demonstrate preproduction, direction, production, postproduction, and distribution of narrative, documentary, and commercial videos
• Perform the duties of various technical crew positions in single and multi-camera production environments
• Explain and demonstrate knowledge of video preproduction techniques by preparing preproduction materials for video productions
• Operate video production lighting, cameras and sound equipment according to industry standards
• Utilize post-production video techniques to edit digital video projects with graphics, picture, sound, and editing
**Video Technology**

Upon successful completion of this program, students will be able to:

- Demonstrate basic preproduction, direction, production, postproduction, and distribution of narrative, documentary and commercial videos
- Perform the basic duties of various technical crew positions in single and multi-camera production environments
- Operate video production lighting, cameras, and sound equipment according to industry standards
- Utilize basic post-production video techniques to edit digital video projects with graphics, picture, sound, and editing

**Visual Communications**

Upon successful completion of this program, students will be able to:

- Use the basic tools and techniques of a visual communicator
- Communicate in an effective and professional manner both verbally and in writing with the ability to incorporate critique recommendations in revising their work
- Demonstrate the ability to meet deadlines
- Use computer and related technology in the execution of visual communications projects
- Demonstrate knowledge of the elements and principles of design
- Produce a body of work demonstrating the ability to solve visual communications problems
- Market themselves using their portfolio and visual communications skills

**Additional Outcomes – Area of Concentration Communications**

Upon successful completion of this concentration, students will also be able to:

- Demonstrate critical thinking skills as they relate to solving communication problems
- Conceptualize and implement a visual solution using different communication mediums
- Apply knowledge of industry practice to visual communication related technologies
- Visually communicate information to a well-defined audience
Additional Outcomes – Area of Concentration in Graphic Design and Multimedia

Upon successful completion of this concentration, students will also be able to:

- Demonstrate an understanding of tools and technology, including their roles in the creation, reproduction, and distribution of graphic designs
- Use relevant tools and technologies including use of 2D and 3D software applications such as modeling, animation, illustration, video, sound, photography, print and web authoring programs
- Demonstrate knowledge of the elements and principles of design, color theory, and their application to graphic designs
- Produce a portfolio demonstrating the ability to solve graphic design problems

Additional Outcomes – Area of Concentration in Web Design and Multimedia

Upon successful completion of this concentration, students will also be able to:

- Produce an appealing visual product based on project goals and limitations of the web based medium
- Demonstrate and apply knowledge of the elements and principles of design to projects and during critical discussions
- Utilize industry standard hardware and software to produce content that is viewable on both past and current technology
- Develop intermediate-level code that is appropriate for web and multimedia presentations
- Problem-solve issues related to the visual and technical components of publishing web specific content
- Produce a portfolio of work that makes them marketable in the job market

Additional Outcomes – Area of Concentration in Photography

Upon successful completion of this concentration, students will also be able to:

- Demonstrate an understanding of industry standard equipment, techniques, and technologies specific to the practice of photography
- Demonstrate an understanding of the historical, political and social context in which photographic images are created and viewed
- Interpret contemporary theory and forms and the contextualization of photography within the larger world of the arts
- Critically analyze and evaluate examples of photographic art
- Execute efficient lighting techniques for both natural and constructed scenes on location or in a studio setting
- Demonstrate a thorough knowledge of industry standard equipment, techniques, and workflows specific to the practice of photography
- Achieve an understanding of the historical, political, and social context in which photographic images are created and viewed
• Communicate with a visual vocabulary to interpret photographic works, theory, and design principles appropriate to the practice of image-based media in both the fine art and commercial fields
• Develop a branding identity package and a professional photography portfolio that showcases technical skills and individual vision

Additional Outcomes – Area of Concentration in Video Production

Upon successful completion of this concentration, students will also be able to:

• Demonstrate preproduction, direction, production, postproduction, and distribution of narrative, documentary and commercial videos
• Perform the duties of various technical crew positions in single and multi-camera production environments
• Explain and demonstrate knowledge of video preproduction techniques by preparing preproduction materials for video productions
• Operate video production lighting, cameras and sound equipment according to industry standards
• Utilize post-production video techniques to edit digital video projects with graphics, picture, sound and editing