Catalog of Learning Outcomes by Major

Athletic Training
Successful completion of this program will enable a degree earner to:
- Demonstrate the foundational knowledge and skills of athletic training.
- Identify and analyze problems, formulate and implement solutions, and assess outcomes.
- Communicate effectively, clearly, and respectfully with medical professionals, patients, and the public.
- Find, analyze, and interpret medical research in order to answer clinical questions, guide clinical practice, and create original scholarly work.
- Apply legal, moral, and ethical principles in their athletic training practice while respecting sociocultural, ethnic, and religious differences.
- Demonstrate competence in clinical practice settings.

Biology
Successful completion of this program will enable a degree earner to:
- Demonstrate knowledge of and apply major biological concepts, tenets and principles.
- Identify, retrieve, and properly interpret and apply published and electronic sources of biological and other scientific information.
- Articulate, apply, and analyze the application of the elements of the scientific method.
- Collect, analyze, interpret and evaluate information and data, and present that information and data in a competent, professional manner in both written and oral forms.

Chemistry
Successful completion of this program will enable a degree earner to:
- Apply foundational knowledge in general chemistry, analytic chemistry, organic chemistry, physical chemistry, inorganic chemistry, and physics.
- Interpret and communicate chemical information effectively.
- Perform chemical techniques appropriately & interpret the findings correctly.

Chemistry-Business
Successful completion of this program will enable a degree earner to:
- Apply foundational knowledge in general chemistry, analytic chemistry, organic chemistry, physical chemistry, inorganic chemistry, and physics.
- Interpret and communicate chemical information effectively.
- Perform chemical techniques appropriately & interpret the findings correctly.
- Be professionally knowledgeable in business and business practices.
- Critically analyze technical challenges from both a scientific and business perspective.

Computer and Information Systems
Successful completion of this program will enable a degree earner to:
- Work effectively in teams to complete projects.
- Demonstrates the ability to effectively communicate and collaborate with colleagues, stakeholders and external audiences.

- Successfully analyze an information systems and business problem and generate a business solution.
- Demonstrates the ability to troubleshoot, manage, and support current information systems technologies.

Computer and Information Systems-Business
Successful completion of this program will enable a degree earner to:
- Work effectively in teams to complete projects.
- Demonstrates the ability to effectively communicate and collaborate with colleagues, stakeholders and external audiences.
- Successfully analyze an information systems and business problem and generate a business solution.
- Demonstrates the ability to troubleshoot, manage, and support current information systems technologies.
- Be professionally knowledgeable in business and business practices.
- Critically analyze technical challenges from both a scientific and business perspective.

Clinical Lab Science
Successful completion of this program will enable a degree earner to:
- Analyze a problem, apply a problem-solving approach to the situation, formulate and implement solutions, evaluate outcomes, and communicate the process in a written format.
- Orally communicate concepts, procedural methods, data analysis and outcomes effectively and clearly.
- Demonstrate professional responsibility.

Computer Science
Successful completion of this program will enable a degree earner to:
- Create and implement solutions for a problem over the entire software development life cycle.
- Describe the operational details of computer languages and systems.
- Explain the theoretical foundations of computing.
- Demonstrate proficiency in a breadth of advanced computing topics.

Computer Science-Business
Successful completion of this program will enable a degree earner to:
- Create and implement solutions for a problem over the entire software development life cycle.
- Describe the operational details of computer languages and systems.
- Explain the theoretical foundations of computing.
- Demonstrate proficiency in a breadth of advanced computing topics.
- Be professionally knowledgeable in business and business practices.
- Critically analyze technical challenges from both a scientific and business perspective.

Criminal Justice
Successful completion of this program will enable a degree earner to:
- Demonstrate knowledge of the operation of the criminal justice system and the legal and moral implications involved in discharging the criminal justice process.
- Articulate the elements of the scientific method, perform scientific research and apply social science concepts, theories and principles to the discipline in written form and in a scholarly manner.

- Successfully and appropriately implement current models and technologies of criminal justice popularly employed by professionals in the criminal justice profession.
- Apply critical thinking, information literacy, effective writing, and oral communication skills to investigate topics in the administration of justice.

Economics

Successful completion of this program will enable a degree earner to:
- Identify, analyze, and apply micro-economic principles.
- Identify, analyze, and apply macro-economic principles to domestic and global sectors.
- Utilize economic theory to formulate policy by government and professionally communicate those recommendations.
- Explain the impact of economic activity and resource allocation on various demographic groups and/or the environment, and connect it to principles of economic justice, environmental justice, and/or the dignity of work provided by Catholic Social Teaching.
- Identify scholarly research relevant to a topic and use quantitative analysis to interpret research results.
- Carry out sound economic analysis and research and communicate it clearly and forcefully.

Education

Successful completion of this program will enable a degree earner to:
- Understand the central concepts, tools of inquiry, and structures of the disciplines taught
- Effectively integrate multiple teaching strategies (including technology) in PK-8 student learning experiences
- Incorporate a variety of communication techniques, including technology, to foster PK-8 student learning
- Understand prevailing theories of development, cognition, and intelligence to support PK-8 students' intellectual, social, physical and moral development
- Support the development of literacy skills in all PK-8 learners
- Be culturally competent and able to adapt instruction to meet the needs of all PK-8 students.
- Create and maintain an inclusive learning environment that supports instructional goals
- Understand how factors in the PK-8 students' environment outside of school may influence students' life and learning
- Demonstrate effective self-assessment and problem-solving strategies.
- Understand the principles of effective classroom management and can use a variety of productive strategies to promote positive, purposeful learning.
- Use a variety of formal and informal assessment techniques
- Display a commitment to reflection, assessment and learning as an ongoing process in the improvement of teaching and learning
- Act in a responsible and professional manner
- Demonstrate a positive disposition towards teaching and learning.

English

Successful completion of this program will enable a degree earner to:
- write clearly and effectively for a variety of audiences, purposes, and subjects
- analyze and interpret literary texts critically, comprehensively, and convincingly
- employ discipline-specific research methods for a variety for purposes

- demonstrate knowledge proficiency in key English Studies content areas

Environmental Program
Successful completion of this program will enable a degree earner to:
- analyze and integrate key concepts in the environmental field
- apply analytical and problem-solving skills to environmental studies and science issues
- apply oral and written communication skills to environmental knowledge and issues effectively
- participate successfully in real-world problem-based settings

Exercise Science
Successful completion of this program will enable a degree earner to:
- demonstrate proficiency in the application and recognition of foundational exercise science principles and exercise techniques
- assess client needs and implement science based solutions and exercise programs
- demonstrate scientific literacy through identification and synthesis of credible exercise science literature
- identify exercise science knowledge gaps and formulate, design, and conduct a research study to address said gap
- demonstrate professionalism in oral communication, public speaking, and service delivery

General Science
Successful completion of this program will enable a degree earner to:
- apply foundational knowledge of chemistry
- demonstrate fundamental knowledge of and apply major biological concepts, tenets and principles
- collect, analyze, interpret and evaluate information and data, and present that information and data in a competent, professional manner
- perform mathematical calculations necessary for scientific pursuits

History
Successful completion of this program will enable a degree earner to:
- develop and apply knowledge of major historical subjects, themes, and concepts
- engage and investigate history as a conversation about how we make sense of the past
- illustrate participation in historical conversations by producing original scholarship

Foreign Languages
Successful completion of this program will enable a degree earner to:
- participate in conversations using paragraph-length discourse with detail and organization
- comprehend spoken language that consists largely of high frequency structures and vocabulary
- read for understanding of both main ideas and supporting details from paragraph-based discourse and make inferences about the text
- write organized, detailed paragraphs with evidence of self-editing
- apply cultural knowledge to perform linguistically and behaviorally in a variety of common social situations

Mass Communications
Successful completion of this program will enable a degree earner to:
- develop and implement a variety of writing formats, styles, and skills necessary for various media platforms and fields

- develop and utilize information literacy for various media platforms and fields
- design and deliver messages effectively for various media platforms and fields
- identify and apply professional ethical standards for various media platforms
- develop proficiency in industry standard software and equipment for various media platforms and fields

Mathematics
Successful completion of this program will enable a degree earner to:
- apply the axiomatic method successfully
- demonstrate a proficiency in performing the routine calculations from algebra, calculus, linear algebra, and probability
- demonstrate a proficiency in the use of a computer algebra system
- write formal mathematical arguments successfully
- make polished oral presentations of mathematical arguments
- create and resolve mathematical conjectures successfully

Mathematics-Business
Successful completion of this program will enable a degree earner to:
- apply the axiomatic method successfully
- demonstrate a proficiency in performing the routine calculations from algebra, calculus, linear algebra, and probability
- demonstrate a proficiency in the use of a computer algebra system
- write formal mathematical arguments successfully
- make polished oral presentations of mathematical arguments
- create and resolve mathematical conjectures successfully
- be professionally knowledgeable in business and business practices.
- critically analyze technical challenges from both a scientific and business perspective.

Neuroscience
Successful completion of this program will enable a degree earner to:
- conduct basic research related to in the discipline of neuroscience and orally communicate the results effectively
- conduct a review of the literature using electronic and print sources
- assess and interpret behavior drawing on the biological, chemical, and neural underpinnings that support the behavior
- design, conduct, and present original research in a specific area of the neurosciences: molecular, systems and functions, behavioral or cognitive neuroscience

Philosophy
Successful completion of this program will enable a degree earner to:
- Read philosophical texts with understanding insight, and critical rigor
- Write a soundly researched, well-argued, and well-written philosophical paper
- Formulate and defend thoughtful and rationally defensible philosophical views, both orally and in writing

Physics
Successful completion of this program will enable a degree earner to:
- demonstrate operational knowledge of the four fundamental areas of physics
- demonstrate mastery of quantitative skills

- utilize modern technology and data acquisition software to obtain and analyze physical data
- articulate contemporary ideas in physics
- communicate effectively, in both written and oral form, results of physics research to members of the scientific community

Physics-Business
Successful completion of this program will enable a degree earner to:
- demonstrate operational knowledge of the four fundamental areas of physics
- demonstrate mastery of quantitative skills
- utilize modern technology and data acquisition software to obtain and analyze physical data
- articulate contemporary ideas in physics
- communicate effectively, in both written and oral form, results of physics research to members of the scientific community
- be professionally knowledgeable in business and business practices.
- critically analyze technical challenges from both a scientific and business perspective.

Political Science
Successful completion of this program will enable a degree earner to:
- define, analyze, and apply concepts and theories fundamental to the subfields of Political Science
- identify, analyze, and critique principles of the US Government and Constitution
- analyze and advocate for a public policy or political principle
- write with clarity, insight, and persuasiveness about a political issue
- present orally with clarity, insight, and persuasiveness an overview and defense of a political viewpoint

Psychology
Successful completion of this program will enable a degree earner to:
- demonstrate and apply knowledge of the four major content areas of psychology (Learning and Cognition; Biological Foundations of Behavior; Developmental and Social; Personality & Psychopathology)
- apply basic statistical procedures through written work and computations
- design and assess professional research in the field of psychology
- present professional research in oral and written forms

Sociology
Successful completion of this program will enable a degree earner to:
- identify the main theoretical and conceptual bases of sociology and apply them toward an effective sociological understanding of current social issues
- apply the scientific method as part of the sociological enterprise
- apply sociological knowledge to effectively analyze and respond to social problems
- apply critical thinking, information literacy, effective writing, and oral communication skills to investigate sociological phenomena

Theatre
Successful completion of this program will enable a degree earner to:
- demonstrate the foundational knowledge and skills of theatre, specifically in the areas of performance, character analysis, and theatrical construction
- find, analyze and interpret the "canon" of dramatic literature, research, and critical theories relating to social and artistic movements throughout history

- demonstrate proficiency in one or more area-specific skills: acting, directing, design, technical theatre, playwriting, dramaturgy or management
- demonstrate the ability to function safely and effectively using contemporary construction tools and theatre technology
- demonstrate professionalism, collaboration, artistic standards and judgment, and respect for the art form in various theatrical contexts

Theology
Successful completion of this program will enable a degree earner to:
- demonstrate knowledge proficiency in three key theological content areas, a) systematic, b) biblical, and c) moral theology
- analyze and interpret theological texts critically, comprehensively and convincingly, and/or apply central theological and ethical concepts to specific situations
- evaluate, defend, or construct theological arguments, by employing discipline specific research methods and effective communication skills (especially written communication, but also oral communication skills)

Masters of Education in Curriculum & Instruction
Successful completion of this program will enable a degree earner to:
- integrate disciplinary content knowledge and practice
- demonstrate an understanding of learners
- develop learning communities
- demonstrate monitoring learning
- demonstrate reflective practice

M.S. in Physician Assistant Studies
Successful completion of this program will enable a degree earner to:
- demonstrate professionalism in medical settings
- demonstrate basic medical knowledge
- take a patient history successfully
- perform physical exams and technical skills using appropriate and correct techniques
- order and evaluate cost effective diagnostic testing
- formulate patient diagnoses and differential diagnoses
- develop a therapeutic plan for patients and educate patients and their families about their diagnoses and treatment plans
- perform a case presentation along with the appropriate documentation
- demonstrate knowledge of health maintenance for patients

B.S. in Medical Studies
Successful completion of this program will enable a degree earner to:
- demonstrate basic medical knowledge
- obtain a chief complaint and document the History of Present Illness of a Patient
- perform a complete physical exam using appropriate and correct exam technique
- demonstrate knowledge of and apply major biological concepts, tenets and principles
- collect, analyze, interpret and evaluate information and data
- perform the routine calculations from statistics and produce clear explanations of statistical results

Masters of Education in Reading

Successful completion of this program will enable a degree earner to:
- understand the theoretical and evidence-based foundations of reading and writing processes and instruction
- use instructional approaches, materials, and an integrated, comprehensive, balanced curriculum to support student learning in reading and writing
- use a variety of assessment tools and practices to plan and evaluate effective reading and writing instruction
- create and engage their students in literacy practices that develop awareness, understanding, respect, and a valuing of differences in our society
- create a literate environment that fosters reading and writing by integrating foundational knowledge, instructional practices, approaches and methods, curriculum materials, and the appropriate use of assessments
- recognize the importance of, demonstrate, and facilitate professional learning and leadership as a career-long effort and responsibility

Masters of Education in Special Education
Successful completion of this program will enable a degree earner to:
- integrate disciplinary content knowledge and practice
- demonstrate an understanding of learners
- develop learning communities
- demonstrate monitoring learning
- demonstrate reflective practice