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 a complete physical exam using appropriate and correct exam technique
• 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