

Program Level Student Learning Outcomes: Undergraduate Programs

Accounting

1. Recall business terms, concepts, and principles and effectively communicate these, through both oral and written means, using the language of business.
2. Utilize critical thinking skills to analyze information and produce improved business decisions and generate effective recommendations for better course of action or opportunity for improvement.
3. Demonstrate relevant application of business knowledge.
4. Exhibit high standards of ethical awareness and conduct and recognize ethical issues businesses/people face in today's world.
5. Demonstrate an in-depth understanding of the accounting content areas necessary to work in the accounting profession.
6. Analyze business decisions using information technology tools commonly used by accounting professionals.

Arts Management & Entrepreneurship

1. Apply management principles in an arts environment
2. Demonstrate ability to lead and manage arts programs, organizations and institutions
3. Demonstrate ability to manage financial function of an arts organization

Athletic Training

1. Be prepared to sit for the BOC (Board of Certification Exam) to become Certified Athletic Trainers.
2. Integrate didactic knowledge with application of practical skills in the clinical decision-making process in the care of the patient.
3. Demonstrate collaborative and patient-focus care; recognizing the skills/abilities other healthcare professionals and executing duties within the scope of an Athletic Trainer.
4. Effectively communicate with patients, physicians, colleagues, administrators, parents/family members using appropriate terminology and complying with privacy statues/regulations.

Biology

1. Students will be able to think critically and evaluate the merit of scientific information.
2. Students will be able to assemble information and communicate it effectively, both orally and in writing.

3. Students will be able to understand ecological principles and their relevance to sustainable human societies.
4. Students will be able to understand the molecular composition, structure, and physiological processes of cells.
5. Students will be able to understand the mechanism of inheritance and its role in maintaining organismal integrity and variability.
6. Students will be able to use quantitative skills in the design, implementation, and interpretation of experiments.

Broadcast & Mass Communication

1. Students will identify and define mass communication theories.
2. Students will be able to utilize a variety of theoretical models and begin to develop their own set of standards in assessing media products.
3. Students will have an understanding of ethical challenges faced by media professionals.
4. Students will be able to effectively and creatively write for, and communicate with, contemporary and proven media technologies.
5. Students will be able to utilize a variety of formal models to produce quality media products.

Business Administration

1. Recall business terms, concepts, and principles and effectively communicate these, through both oral and written means, using the language of business.
2. Utilize critical thinking skills to analyze information and produce improved business decisions and generate effective recommendations for better course of action or opportunity for improvement.
3. Demonstrate relevant application of business knowledge.
4. Exhibit high standards of ethical awareness and conduct and recognize ethical issues businesses/people face in today's world.
5. Demonstrate an in-depth understanding of the content areas and tools necessary for a business administration professional.
6. Analyze business decisions using tools, techniques, and theory commonly used by business administration professionals.

Chemistry

1. Know, comprehend and apply (problem solving) the important facts, theories, concepts, methods, and language used by chemists.
2. Possess skills for effective communication of scientific knowledge, both written and oral.
Effective communication is:
 - the application and articulation of important facts, theories, concepts and methods learned within the chemistry major
 - use of generally accepted formats and practices for that communication
3. Demonstrate a strong fundamental knowledge in the sub-disciplines of chemistry: analytical, physical, organic, inorganic, and biochemistry

4. Demonstrate strong laboratory skills including those commensurate with the major's post graduate pursuit(s) and to provide students experience with scientific inquiry, the scientific method and experimental design.

Communication Studies

1. Demonstrate the acquisition of Disciplinary Knowledge
2. Demonstrate an ability to directly apply Disciplinary Knowledge to lived experiences.
3. Demonstrate competence in Public/Presentational Speaking
4. Demonstrate competence in Written forms of Communication
5. Demonstrate competence in the conduct of Research

Communications Disorders

1. Students will demonstrate knowledge of typical speech and language development
2. Students will demonstrate knowledge of communication sciences
3. Students will demonstrate knowledge of communication disorders
4. Students will demonstrate research/analytical skills
5. Students will demonstrate skills in clinical/experiential learning related to communication sciences and disorders

Computer Information Systems

IS_1. Graduates will have established a core of foundational knowledge of the computing discipline and will have demonstrated an understanding of that knowledge by applying it in the design, implementation, and evaluation of software and/or hardware systems. Students will:

IS_1.1. Acquire an historical and current perspective in the concepts of computer information systems and business analysis.

IS_1.2. Demonstrate proficiency in the basic theory and mathematics that underlie computing, including discrete mathematics and models of computation.

IS_1.3. Demonstrate proficiency in fundamental skills such as programming, problem solving, and algorithm development.

IS_1.4. Successfully apply fundamental skills to a variety of practical problems.

IS_2. Graduates will have acquired technical skills necessary to develop, implement, and maintain systems in business, government, and other areas. Students will:

IS_2.1. Demonstrate proficiency in programming using one or more languages commonly used in business systems.

IS_2.2. Demonstrate proficiency in the use of database technology to gather, organize, and access information.

IS_2.3. Acquire knowledge of the history, development, and current state of telecommunication systems and their use in information technology.

IS_2.4. Demonstrate the ability to analyze and design a moderately complex computer system, and acquire knowledge of implementation techniques and several forms of system analysis and design.

IS_3. Graduates will develop effective organizational and communication skills required of computing professionals and apply those skills in a variety of situations. Students will:

IS_3.1. Demonstrate proficiency in written and oral communication skills that support management of large scale projects.

IS_3.2. Develop the ability to work in teams to plan, organize, and implement projects.

IS_3.3. Acquire management skills required to oversee projects from inception to completion including requirements analysis, design, implementation, and maintenance.

IS_3.4. Successfully apply organizational and communication skills in an internship setting.

Computer Network Security

NA_1. Graduates will have established a core of foundational knowledge of the computing discipline and will have demonstrated an understanding of that knowledge by applying it in the design, implementation, and evaluation of software and/or hardware systems. Students will:

NA_1.1. Acquire an historical and current perspective in the technical concepts and implementation of system hardware and software, including areas such as computer architecture, programming languages, telecommunications systems and their use in technology, and operating systems.

NA_1.2. Demonstrate proficiency in the basic theory and mathematics that underlie computing, including discrete mathematics and models of computation.

NA_1.3. Demonstrate proficiency in fundamental skills such as programming, problem solving, and algorithm development.

NA_1.4. Successfully apply fundamental skills to a variety of practical problems.

NA_2. Graduates will acquire technical skills necessary to design, implement, and manage information networks in business, government, and other areas. Students will:

NA_2.1. Demonstrate proficiency in programming particularly with regard to scripting applications for network analysis.

NA_2.2. Demonstrate the ability to design and build local area networks.

NA_2.3. Demonstrate the ability to administrate networks.

NA_2.4. Acquire an understanding of the legal and ethical issues that impact the design and administration of computer networks.

NA_2.5. Demonstrate an understanding of security issues in the design and administration of computer networks and develop proficiency in the defense of network and system integrity.

NA_3. Graduates will develop effective organizational and communication skills required of computing professionals. Students will:

NA_3.1. Demonstrate proficiency in written and oral communication.

NA_3.2. Develop teamwork skills and be exposed to software applications that support collaboration and management of large-scale projects.

NA_3.3. Successfully apply organizational and communication skills in an internship setting.

Computer Science

1. An ability to apply knowledge of computing and mathematics appropriate to the discipline
2. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution
3. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs
4. An ability to function effectively on teams to accomplish a common goal
5. An understanding of professional, ethical, legal, security and social issues and responsibilities
6. An ability to communicate effectively with a range of audiences
7. An ability to analyze the local and global impact of computing on individuals, organizations, and society
8. Recognition of the need for and an ability to engage in continuing professional development
9. An ability to use current techniques, skills, and tools necessary for computing practice.
10. An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.
11. An ability to apply design and development principles in the construction of software systems of varying complexity.

Creative Writing

1. Develop into sensitive and perceptive readers of literature
2. Develop into effective writers
3. Increase their understanding of the history and nature of literature, especially that written in
4. Increase their understanding of the history and nature of the English language.

Criminal Justice

1. To become familiar with a body of knowledge as concerns the three major subsystems of the Criminal Justice System – law enforcement, courts, and corrections
2. To develop an ability to understand and analyze critical issues in Criminal Justice from an interdisciplinary perspective (psychological, sociological, and political implications)
3. To develop familiarity with career opportunities within the Criminal Justice System and to adequately prepare for such opportunities

Digital Media & Design: Graphic Design

1. Upon completion of the program students will be able to define, recall, and demonstrate design fundamentals
2. Upon completion of the program students will be able to design, implement, test and improve an algorithmic solution to a multi-media problem
3. Upon completion of the program students will be able to use the creative process to solve visual and/or conceptual problems

4. Upon completion of the program students will be able to elicit project requirements from a client, write requirements specifications and develop and/or design an application that meets those requirements
5. Upon completion of the program students will be able to effectively communicate with a range of audiences
6. Upon completion of the program students will be able to defend and critique personal work as well as the work of others
7. Upon completion of the program students will be able to demonstrate an understanding of professional, ethical, legal and social issues and responsibilities
8. Upon completion of the program students will be have an ability to apply creative thinking to utilize the appropriate techniques, skills and tools to create, and execute a compelling solution to a design challenge.
9. Upon completion of the program students will be able understand the value of and produce a high quality portfolio, resume and branding materials to interview and continually market themselves as a professional designer.

Digital Media & Design: Interactive Design

1. Upon completion of the program students will be able to define, recall, and demonstrate design fundamentals
2. Upon completion of the program students will be able to design, implement, test and improve an algorithmic solution to a multi-media problem
3. Upon completion of the program students will be able to use the creative process to solve visual and/or conceptual problems
4. Upon completion of the program students will be able to elicit project requirements from a client, write requirements specifications and develop and/or design an application that meets those requirements
5. Upon completion of the program students will be able to effectively communicate with a range of audiences
6. Upon completion of the program students will be able to defend and critique personal work as well as the work of others
7. Upon completion of the program students will be able to demonstrate an understanding of professional, ethical, legal and social issues and responsibilities
8. Upon completion of the program students will be able to store and retrieve data from local and remote multi-user databases, understanding the security and contention issues involved
9. Upon completion of the program students will be able to utilize the appropriate techniques, skills and tools for the creation and control of interactive digital media

Economics

1. Apply economic reasoning to explain social and economic events.
2. Use economic theory and model(s) to make reasonable predictions.
3. Explain how macroeconomic variables affect agent behavior or outcomes.

4. Evaluate how economic policy options affect society, institutions, and behaviors. (Analyze public policy issues using economic analysis.)
5. Obtain, analyze, interpret and present quantitative evidence in appropriate formats to support a conclusion. (Test hypothesis derived from economic theory using quantitative data.)
6. Communicate effectively in both oral and written form.

Education

Outcomes for ESLL (English for the Second Language Learner) BW Certificate:

1. To prepare candidates to work successfully in the classroom and/or the work environment with speakers whose 1st language is not English;
2. To gain the skills and techniques to aid the ESLL student/adult to acquire English to meet his/her academic and social needs.

Outcomes for ALL Licensure Programs for the School of Education including early childhood education; middle school education; AYA (Gr. 7-12) education; and multi-age education.

AYA programs include licensure in English, mathematics, social studies and integrated science.

Multi-age programs include licensure in either French, German or Spanish; health and physical education; music education; special education and visual arts education.

The outcomes include:

1. To provide teacher candidates with the knowledge, skills, perspectives, and 21st century tools needed to succeed in today's diverse and complex educational environment.
2. To enable future teachers to think critically and creatively about the processes and prospects of education, the place of education, and the role of the teacher in a diverse and democratic society.
3. To prepare its candidates to be reflective decision makers, who are contributing, compassionate, and competent educators.

English

The English major at Baldwin-Wallace University seeks to ensure that during their course of study, English majors will

1. Develop into sensitive and perceptive readers of literature
2. Develop into effective writers
3. Increase their understanding of the history and nature of literature, especially that written in
4. Increase their understanding of the history and nature of the English language.

Exercise Science

1. Demonstrate mastery of basic principles of anatomy & physiology as related to exercise, training and general health/wellness.
2. Demonstrate mastery of skills related to assessment of fitness, health, human movement and performance.
3. Analyze and interpret current scientific literature and evidence to create effective professional presentation of content.
4. Apply best practices in developing, prescribing and administering safe and effective exercise or strength and conditioning programs for clients or athletes.
5. Effectively communicate content related to the field of fitness, health, human movement and performance in written format.
6. Demonstrate professional behavior consistent with discipline and scope of practice.

Film Studies

1. Students will be able to recognize the functions of film within a society.
2. Students will be able to utilize a variety of theoretical and formal models and develop their own set of standards in evaluating film.
3. Students will have an understanding of ethical implications of visual images presented in film.
4. Students will be able to effectively communicate with, contemporary and proven digital video and audiovisual production technologies.

Finance

1. Recall business terms, concepts, and principles and effectively communicate these, through both oral and written means, using the language of business.
2. Utilize critical thinking skills to analyze information and produce improved business decisions and generate effective recommendations for better course of action or opportunity for improvement.
3. Demonstrate relevant application of business knowledge.
4. Exhibit high standards of ethical awareness and conduct and recognize ethical issues businesses/people face in today's world.
5. Demonstrate an in-depth understanding of the content areas and tools necessary for a finance professional.
Analyze financial decisions using tools, techniques, and theory commonly used by finance professionals.

French

1. Communicate in Languages other than English.
2. Demonstrate knowledge understanding of other cultures.
3. Use foreign language in connection with other disciplines.
4. Demonstrate knowledge of the Nature of Language and Culture.

German

1. Communicate in Languages other than English.
2. Demonstrate knowledge understanding of other cultures.
3. Use foreign language in connection with other disciplines.
4. Demonstrate knowledge of the Nature of Language and Culture.

Health Care Management

1. Recall business terms, concepts, and principles and effectively communicate these, through both oral and written means, using the language of business.
2. Utilize critical thinking skills to analyze information and produce improved business decisions and generate effective recommendations for better course of action or opportunity for improvement.
3. Demonstrate relevant application of business knowledge.
4. Exhibit high standards of ethical awareness and conduct and recognize ethical issues businesses/people face in today's world.
5. Demonstrate an in-depth understanding of critical thinking skills used to inform and produce health care management decisions and generate recommendations for improvement.
6. Demonstrate an in-depth understanding of the content areas of health care management and their application to health care situations.

Health Coaching and Health Promotion

1. Acquire theoretical and practical knowledge related to health coaching promotion and related programs that may be implemented in public and private agencies, at the worksite, or in specialized and clinical settings.
2. Acquire knowledge related to behavior modification, nutrition, consumer issues, community health, health education principles, fitness and health promotion program management.
3. Possess skills related to the planning, implementation and evaluation of programs designed to promote healthy personal, family, community lifestyles.

Health and Physical Education

1. Be prepared to obtain a Multi-Age license to teach health and physical education by successfully completing this major, the applicable requirements for licensure as outlined by the School of Education and the state licensure exams.
2. Demonstrate the knowledge and skills required for the planning, implementation, and evaluation of health and physical education programs for learners ages three through twenty-one and pre- kindergarten through grade twelve.

History and Public History

1. Demonstrate factual knowledge of historical events, people, and concepts, such as would be necessary to teach or as basis for career in history-related field.
2. Demonstrate mastery of writing skills and documentation.

3. Demonstrate mastery of historical reasoning and argumentation.
4. Possess a plan for a career and/or further education

Human Resource Management

1. Recall business terms, concepts, and principles and effectively communicate these, through both oral and written means, using the language of business.
2. Utilize critical thinking skills to analyze information and produce improved business decisions and generate effective recommendations for better course of action or opportunity for improvement.
3. Demonstrate relevant application of business knowledge.
4. Exhibit high standards of ethical awareness and conduct and recognize ethical issues businesses/people face in today's world.
5. Demonstrate an in-depth understanding of the content areas and tools necessary for a human resources professional.
Analyze human resource management decisions using concepts/theories and techniques/tools commonly used by professionals in the field.

Industrial/Organizational Psychology Major

1. Recall business terms, concepts, and principles and effectively communicate these, through both oral and written means, using the language of business.
2. Utilize critical thinking skills to analyze information and produce improved business decisions and generate effective recommendations for better course of action or opportunity for improvement.
3. Demonstrate relevant application of business knowledge.
4. Exhibit high standards of ethical awareness and conduct and recognize ethical issues businesses/people face in today's world.
5. Develop an understanding of key theories and principles in the field of Industrial/Organizational Psychology.
6. Analyze and solve workplace management problems through applying principles of behavioral science.
7. Use a variety of qualitative and quantitative research methods including research design, data analysis and interpretation in an organizational setting.
8. Have knowledge of basic human resource management practices including recruitment and selection, training and development, performance management, and organizational development.
9. Develop consultancy skills to work with internal or external clients.

Innovation & Entrepreneurship

1. Recall business terms, concepts, and principles and effectively communicate these, through both oral and written means, using the language of business.

2. Utilize critical thinking skills to analyze information and produce improved business decisions and generate effective recommendations for better course of action or opportunity for improvement.
3. Demonstrate relevant application of business knowledge.
4. Exhibit high standards of ethical awareness and conduct and recognize ethical issues businesses/people face in today's world.
5. Demonstrate an in-depth understanding of the content areas and tools necessary for an innovation & entrepreneurship professional.
6. Analyze entrepreneurial decisions using tools, techniques, and theory commonly used by innovation & entrepreneurship professionals.

International Business

1. Recall business terms, concepts, and principles and effectively communicate these, through both oral and written means, using the language of business.
2. Utilize critical thinking skills to analyze information and produce improved business decisions and generate effective recommendations for better course of action or opportunity for improvement.
3. Demonstrate relevant application of business knowledge.
4. Exhibit high standards of ethical awareness and conduct and recognize ethical issues businesses/people face in today's world.
5. An international business major will be able to assess a set of countries or a selected trade bloc and determine the best country or trade bloc to trade in.
6. An international business major will develop/formulate the best entry strategy given the business plan and tolerable level of risk.

International Studies

1. Student shows ability to comprehend, analyze and draw conclusions regarding international issues.
2. Student shows ability in course work, papers and projects to integrate two or more academic disciplines related to the International Studies Major.
3. Student recognizes, values and demonstrates intercultural competency.
4. Student assesses how different disciplines (e.g., history, political science, economics, sociology, etc.) influence and shape alternative individual, national government and global perspectives on international issues (International Affairs).

Management

1. Recall business terms, concepts, and principles and effectively communicate these, through both oral and written means, using the language of business.

2. Utilize critical thinking skills to analyze information and produce improved business decisions and generate effective recommendations for better course of action or opportunity for improvement.
3. Demonstrate relevant application of business knowledge.
4. Exhibit high standards of ethical awareness and conduct and recognize ethical issues businesses/people face in today's world.
5. Demonstrate an understanding of the core management concepts in the context of modern organizations.
Analyze management problems using tools, techniques, and theory commonly used by management professionals.

Marketing

1. Recall business terms, concepts, and principles and effectively communicate these, through both oral and written means, using the language of business.
2. Utilize critical thinking skills to analyze information and produce improved business decisions and generate effective recommendations for better course of action or opportunity for improvement.
3. Demonstrate relevant application of business knowledge.
4. Exhibit high standards of ethical awareness and conduct and recognize ethical issues businesses/people face in today's world.
5. Demonstrate an in-depth understanding of the content areas and tools necessary for a marketing professional.
Analyze marketing decisions using tools, techniques, and theory commonly used by marketing professionals.

Mathematics (Pure)

1. Students will acquire a solid background in traditional undergraduate mathematics, including depth of knowledge in calculus and linear algebra and breadth of knowledge in applied and theoretical mathematics.
2. Students will understand the deductive structure of mathematics and be able to write convincing and cogent mathematical proofs.
 - a. Students at the 200-level will be able to write a number of types of basic proof, including direct proof and proof by mathematical induction.
 - b. Students will understand the deductive structure of mathematics and be able to write convincing and cogent mathematical proofs.
 - c. Upper-division students will be able to write more complex proofs specific to such mathematical areas as number theory, advanced calculus, abstract algebra, and geometry.

3. Students will learn a wide variety of techniques useful for mathematical and/or statistical modeling.
 - a. Students will be able to use common technological tools in the service of mathematics.
 - b. Students will be able to use a computer algebra system to perform the following operations basic to precalculus and calculus:
 - i. Graphing in two and three dimensions
 - ii. Differentiation
 - iii. Integration
 - c. Students will be able to use common technological tools in the service of mathematics.
 - d. Students will be able to write programs in a high-level programming language.
 - e. Students will be able to use common technological tools in the service of mathematics.
 - f. Students studying statistics at the 200-level or above will be able to use specialized statistics software for data analysis.

Mathematics (Applied)

1. Technical skills

Graduates of the Baldwin Wallace University Applied Mathematics Program will demonstrate mastery of relevant technical skills in the following areas:

Mathematics:

- Numerical Methods

Mathematical Modeling:

- Statistics
- Understanding of the deductive structure of mathematics

Computational Skills:

- Ability to code in relevant programming languages
- Data visualization

Knowledge of a Bridge Area:

- Ability to develop models in a related area of interest

2. Presentation

Graduates of the Baldwin Wallace University Applied Mathematics Program will be able to present mathematical models and technical analysis, both orally and in writing. They will be able to tailor their oral and/or written presentations both to technical and non-technical audiences.

3. Working with other disciplines

Graduates of the Baldwin Wallace University Applied Mathematics Program will demonstrate the ability to work in interdisciplinary environments, including the natural sciences (chemistry, biology, physics, neuroscience, etc.), business, and other fields.

4. Teamwork

Graduates of the Baldwin Wallace University Applied Mathematics Program will demonstrate the ability to work effectively as part of a team.

Conservatory (all majors except Arts Management)

1. Students will demonstrate facility in aural skills.
2. Students will demonstrate understanding of harmony.
3. Students will demonstrate continuous improvement in their primary instrument.
4. Students will demonstrate continuous improvement in secondary keyboard.

Music Composition

1. Develop a complete composition from initial concept to finished, performance ready piece of music.
2. Communicate compositional ideas to performers through proper notations skills.
3. Utilize generative, structural, and musical elements (melody, harmony, rhythm, range, timbre, dynamics, tempo, modes, texture, counterpoint, expressive markings) in the creation of original compositions.

Music Education (Located in Conservatory Core Assessment workspace)

1. Understanding central musical concepts, tools of inquiry, and structures of music by creating authentic learning experiences based on current trends and curriculum in music education.
2. Design and implement developmentally appropriate activities for students to participate in the artistic processes of creating, performing and responding to music.
3. Create opportunities for musical development that support and encourage varied forms of student engagement and achievement within the arts.
4. Use a variety of planned sequential instructional strategies to encourage student development of creative and critical thinking, problem solving, and performance skills.
5. Create a positive learning environment for students by encouraging and modeling appropriate social interaction, active engagement in learning and self motivation.
6. Communicate effectively verbally and nonverbally with students, using a variety of technology resources to promote active inquiry, collaboration and interaction within the music classroom.
7. Design and implement instruction reflecting long range and short term planning and integrating knowledge of the subject matter, student needs, community context and local, state and national standards.
8. Use formal and informal strategies to evaluate and support the intellectual, social and physical development of the learner.
9. Function as a reflective practitioner who seeks who seeks opportunities for professional growth in an effort to more fully appreciate the effects of his/her professional choices and actions on other members of the learning community.
10. Develop positive relationships with colleagues, parents, and agencies in the larger community to enrich the students' opportunities for musical learning.

Music History & Literature

1. Students will demonstrate broad knowledge of the history of Western music through familiarity with significant works from a variety of musical styles and genres and through description of significant stylistic, aesthetic, and philosophical movements.
2. Students will demonstrate the ability to conduct and accurately document research on a specific topic in music history.
3. Students will demonstrate the ability to present the results of research orally and in writing.

Music Performance Instrumental (Strings & Woodwinds, Brass, Percussion)

1. Students will perform repertoire appropriate to their class standing with technical and interpretive proficiency

Music Performance: Keyboard

1. Students will demonstrate the ability to learn and perform works independently with musical accuracy (rhythm and pitches), stylistic awareness, musical insight, and technical proficiency appropriate to the student's level and degree program.
2. Student will demonstrate the ability to critically evaluate performances
3. Students will demonstrate the ability to teach beginning piano/organ students of all ages.

Music Performance: Voice

1. Students will sing with tone appropriate to entry level professional work
2. Students will approach foreign language diction and IPA with professional level competence.

Music Theatre

1. Students will be able to demonstrate proficiency in performing classical and contemporary theatrical texts.
2. Students will be able to demonstrate proficiency in performing ballet, jazz, modern, tap and hip hop dance forms.
3. Students will be able to demonstrate proficiency in performing stylistically diverse vocal repertoire.

Music Theory

1. Given a piece of Western art music, students will be able to identify significant musical structures, relate the procedural narrative created by those structures, and attribute aesthetic meaning to the use of both process and structure in the composition.
2. Students will demonstrate the ability to analyze, describe, and emulate discrete musical styles using appropriate analytical and compositional methodologies.
3. Students will demonstrate the ability to conduct and accurately document research on a specific topic in music theory.
4. Students will demonstrate the ability to present the results of research orally and in writing.

Music Therapy

1. Students will demonstrate ability to demonstrate ability to design referrals, assessments and treatment plans for client populations.
2. Students will demonstrate ability to implement treatment and termination processes in client work.
3. Students will demonstrate ability to provide accurate documentation and evaluation of treatment.
4. Students will demonstrate knowledge of professional development responsibilities and continuing education.

National Security

1. Student shows ability to comprehend, analyze and draw conclusions regarding international issues.
2. Student shows ability in course work, papers and projects to integrate two or more academic disciplines related to the International Studies Major.
3. Student recognizes, values and demonstrates intercultural competency.
4. Students evaluate the origins and risks associated or arising from different types of national security threats and the global context in which security is pursued (National Security).

Neuroscience

1. Explain and apply general principles that pertain to the nervous system.
2. Compile and critically evaluate information from a wide range of scientific sources.
3. Communicate scientific ideas to their peers through oral and written communication.
4. Apply the scientific method through their ability to form sound hypotheses based on current literature and design experiments to test their hypotheses.
5. Collect and analyze data, showing an understanding of fundamental concepts to data analysis.
6. Explain ethical, safety and scientific theory for appropriate laboratory procedures

Nursing

1. Engage in lifelong learning to maximize high-quality nursing care through increased understanding of human responses to health and illnesses.
2. Apply evidence-based practice in nursing care.
3. Provide culturally appropriate, patient-centered nursing care to individuals, families, and communities.
4. Demonstrate basic knowledge of healthcare policy, finance, and regulatory environments in the application of standards to inform and influence healthcare trends and decision making.
5. Collaborate with interdisciplinary teams to improve the quality of health care for all individuals
6. Apply leadership principles in diverse professional nursing practice roles.

7. Apply critical thinking in the development, implementation, and evaluation of standards for professional nursing practice
8. Incorporate appropriate technologic advances into high quality nursing care.

Organizational Leadership

1. Recall business terms, concepts, and principles and effectively communicate these, through both oral and written means, using the language of business.
2. Utilize critical thinking skills to analyze information and produce improved business decisions and generate effective recommendations for better course of action or opportunity for improvement.
3. Demonstrate relevant application of business knowledge.
4. Exhibit high standards of ethical awareness and conduct and recognize ethical issues businesses/people face in today's world.
5. Students are prepared to take on leadership roles in organizations.
Analyze organizational decisions using tools, techniques, and theory commonly used by organizational leadership professionals.

Philosophy

1. Demonstrate Competence in Inquiry and Analysis (critical thinking)
2. Demonstrate Competence in Ethical Reasoning and Action
3. Demonstrate Competence in Written Communication
4. Demonstrate Facility in Engagement with Big Questions/Knowledge of History of Philosophy

Physics

1. In the freshman physics courses (PHY-131-2 and PHY-145-6) students should develop a knowledge of fundamental physics concepts and the ability to apply this knowledge to solve challenging problems.
2. Our majors (physics, pre-engineering, physics teaching) should demonstrate continuous improvement in understanding of physics concepts and ability to solve qualitative and quantitative problems.
3. Our majors should demonstrate the ability to perform laboratory and/or calculation based investigations, and the ability to discuss (in writing or otherwise) these investigations and their historical context.

Political Science

1. Demonstrate depth understanding of basic factual information about politics within the areas of specialization including but not limited to American Politics, Political Theory, International Relations, Comparative Politics and Methodology
2. Understand and be able to inter- relate the leading theories, literature and approaches in the subfields of American Politics, Political Theory, International Relations, Comparative Politics and Methods .
3. Construct and articulate well- reasoned and logical arguments about political phenomena, grounded in evidence, and in multiple sub-fields on relevant issues in the discipline.
4. Analyze political phenomena critically, recognize implications of diverse perspectives, normative positions and evidentiary claims.
5. Able to conduct research into political questions using traditional library, documentary, interview sources and web-based information as well as exhibit proficiency in analyzing and interpreting their findings.
6. Write clearly and persuasively about political questions, using appropriate language, and effectively use argument and evidence to communicate and support original analysis of political phenomena.
7. Value civic engagement and appreciate the importance of active citizenship and working collaborative with others.
8. Develop realistic ideas for applying their knowledge and skills in meaningful employment and/or further educational opportunities after graduation through internships, independent research and other experiential learning opportunities.

Pre-Physical Therapy

1. Demonstrate mastery of principles of human anatomy and physiology as related to exercise, training and general health/wellness, including responses to injury.
2. Demonstrate mastery of skills related to assessment of health, fitness, human movement and performance.
3. Analyze and interpret current scientific literature and evidence to create effective professional presentation of content.
4. Demonstrate mastery of skills related to assessment and application of therapeutic modalities used in the care and treatment of physically active clients.

Pre-Social Work

Psychology Majors

1. Knowledge Base of Psychology
Students will demonstrate fundamental knowledge and comprehension of the major concepts, theoretical perspectives, historical trends, and empirical findings to discuss how psychological principles apply to behavioral problems.

1.1 Describe key concepts, principles, and overarching themes in psychology
1.2 Develop a working knowledge of psychology's content domains
1.3 Describe applications of psychology
2. Scientific Inquiry and Critical Thinking
Development of scientific reasoning and problem solving, including effective research methods.
2.1 Use scientific reasoning to interpret psychological phenomena
2.2 Demonstrate psychology information literacy
2.3 Engage in innovative and integrative thinking and problem solving
2.4 Interpret, design, and conduct basic psychological research
2.5 Incorporate sociocultural factors in scientific inquiry
3. Ethical and Social Responsibility in a Diverse World
Development of ethically and socially responsible behaviors for professional and personal settings in a landscape that involves increasing diversity.
3.1 Apply ethical standards to evaluate psychological science and practice
3.2 Build and enhance interpersonal relationships
3.3 Adopt values that build community at local, national, and global levels
4. Communication
Demonstrate competence in writing and in oral and interpersonal communication skills
4.1 Demonstrate effective writing for different purposes
4.2 Exhibit effective presentation skills for different purposes
4.3 Interact effectively with others

5. Professional Development

Application of psychology-specific content and skills, effective self-reflection, project-management skills, teamwork skills, and career preparation

5.1 Apply psychological content and skills to career goals

5.2 Exhibit self-efficacy and self-regulation

5.3 Refine project-management skills

5.4 Enhance teamwork capacity

5.5 Develop meaningful professional direction for life after graduation

Sociology Major

1. Analyze and explain the ways groups, societies and cultures address human needs and concerns.
2. Explain and apply ideas, theories and modes of inquiry drawn from sociology in the examination of persistent issues and social problem.
3. Acquire social science research and data analysis skills, and to be able to apply these in everyday situations.
4. Be aware of global conditions that affect us, and to be able to formulate prescriptions for issues that tend to persist.
5. Explain conditions and motivations that contribute to conflict, cooperation, and interdependence among groups, societies, and nations.
6. Analyze and evaluate the effects of changing conditions of the global community

Primary Healthcare Advancement Program

Students completing the Primary Healthcare Advancement Program will be able to:

PLO #1: Successfully enter a primary care-focused program in medical school

- a. Preparation for primary care-focused medical school entry involves completing the basic academic medical school requirements (general Biology, Chemistry, Physics, etc.), as well as completing coursework emphasizing the sociologic aspects of medical care (Medical Sociology, Global Health, etc.)
- b. B.S. students will be able to understand the fundamentals of the basic academic medical school requirements, and also have a perspective of delivering medical care in a diverse society.

PLO #2: Explain of the importance and significance of primary care medicine

- a. The foundation of primary care medicine is the perspective of preventive health care, and the recognition of the various factors contributing to the development of disease. This foundation is found in the fundamental aspects of Public Health; The students in the program major in Public Health.

- b. B.S. students will complete the major in Public Health, and therefore will be able to understand the importance and significance of primary care medicine.

PLO #3: Successfully achieve a competitive score on the new MCAT and attain the additional recommended academic requirements for medical school

- a. Beginning in 2015, a new Medical College Admission Test (MCAT) has been administered, and to prepare for the content of the new test as well as the changing medical school curricula, additional academic coursework has been suggested by many medical schools. In addition to the major in Public Health and basic academic medical school requirements, the students in the program take introductory Psychology, introductory Sociology, Medical Sociology, Genetics, Biochemistry, and Medical Case Studies as courses to fulfill these new suggested requirements.
- b. B.S. students will complete the Primary Healthcare Advancement Program, the curriculum of which includes the additional recommended academic requirements for medical school since 2015.

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Public Health

- 1. Have a social-ecological perspective of health
 - a. The social-ecological perspective is a way to conceptualize health through multiple levels from the individual (biology, psychology, etc.) to their society (institutions, culture, etc.).
 - b. BS students are expected to understand the social-ecological perspective and use when discussing health issues
- 2. Effective written and oral communication
 - a. It is important for students to be able to take public health information and research and synthesize it for consumption and usability for many different populations (scientific, political, neighborhood, etc.).
 - b. BS students are expected to be able to write and speak effectively.
- 3. Utilizing research methodologies for public health purposes
 - a. Public health requires that its activities utilize scientific evidence when implementing any activity.
 - b. BS students are expected understand the need for scientific evidence for public health activities.
- 4. Working effectively with diverse individuals and communities.
 - a. Public health students need to understand and describe how various cultural and socio-economic backgrounds can affect people's lives and health.
 - b. BS students are expected to understand how diverse experiences can affect people's lives

5. Public Health Leadership
 - a. Public Health students are expected to uphold public health code of ethics in the practice of population health.
 - b. BS students need to understand and explain how different systems interact.

Public History

1. Demonstrate factual knowledge of historical events, people, and concepts, such as would be necessary to teach or as basis for career in history-related field.
2. Demonstrate mastery of writing skills and documentation.
3. Demonstrate mastery of historical reasoning and argumentation.
4. Possess a plan for a career and/or further education

Public Relations

1. Students will be able to demonstrate a basic knowledge of the RACE Model.
2. Students will have a basic knowledge of PR case study analysis.
3. Students will be able to analyze a public relations campaign.
4. Students will be able write a public relations plan.
5. Students will be able to create a professional portfolio to be used for graduate school and employment interviews.

Public & Nonprofit Management

Program Goals:

1. To provide students with the skills and mindset needed to understand the role of public service in the context of government and the nonprofit sector, and to understand the particular political, economic and social factors and challenges facing public and nonprofit managers.
2. To help students develop the skills needed to engage in public and nonprofit management: problem identification and analysis, problem solving, effective oral and written communication, quantitative and qualitative analysis, and organizational management.
3. To help students identify their interests and potential future opportunities in public and nonprofit management through interning with a government or nonprofit organization.

Public and Nonprofit Management Major Learning Outcomes:

1. Students will demonstrate understanding of the management of public and nonprofit organizations and the public policy process.
2. Students will demonstrate undergraduate level competence in objective writing, presentation skills, policy research, and quantitative and qualitative analysis.
3. Students will develop career and/or graduate study plans in the areas of government and nonprofit management, public policy, or a related field through involvement in an internship and intensive program advising.

Religion

1. A student with a BA in Religion will be able to convey his/her knowledge and understanding of religion traditions and experience through critical thinking, writing, and oral communication skills.
2. A student with a BA in Religion will be able to identify and interpret the ultimate questions religious traditions address.
3. A student with a BA in Religion will be able to identify facts, theories, and methods used by professionals in the field of Religion.
4. A student with a BA in Religion will be able to understand and appreciate their own experience within a religious or spiritual context.

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Software Engineering

Per ABET criteria for Student Outcomes:

- (a) an ability to apply knowledge of mathematics, science, and engineering
- (b) an ability to design and conduct experiments, as well as to analyze and interpret data
- (c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- (d) an ability to function on multidisciplinary teams
- (e) an ability to identify, formulate, and solve engineering problems
- (f) an understanding of professional and ethical responsibility
- (g) an ability to communicate effectively
- (h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- (i) a recognition of the need for, and an ability to engage in life-long learning
- (j) a knowledge of contemporary issues
- (k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

Spanish

1. Communicate in Languages other than English.
2. Demonstrate knowledge understanding of other cultures.
3. Use foreign language in connection with other disciplines.
4. Demonstrate knowledge of the Nature of Language and Culture.

Sport Management

1. Demonstrate knowledge related to contemporary theory and practice in leadership, management, organization and administration of special events and programs related to sport and/or as related to sport and recreational settings
2. Exhibit skills related to planning, organizing, leading and evaluating special events or programs as they may be needed by managers of sport and/or in the sport or recreational setting.
3. Display skills including those related to marketing and promotion, budgeting, legal issues, governance, media relations and ethical considerations.

Studio Art

1. Students will be able to effectively communicate a visual or conceptual idea.
2. Students will be able to creatively solve visual and/or conceptual problems.
3. Students will be able to demonstrate, recall and/or define design fundamentals.
4. Students will be able to demonstrate a high level of craftsmanship.
5. Students will develop a high level of technical skill.
6. Students will be able to effectively critique their work and the work of others.

Sustainability

1. Demonstrate understanding of interaction between natural and social systems
2. Demonstrate the ability to identify characteristics of sustainable societies and impediments to their development or preservation.
3. Demonstrate an understanding of ethical issues and considerations related to sustainability
4. Demonstrate ability to evaluate sustainability issues using systems thinking and multi-disciplinary perspectives.
5. Demonstrate the ability to interpret data relevant to sustainability.

Theater (acting & directing, dance & movement, design & technical, stage management)

1. Develop an awareness and appreciation of theatre and/or dance as art forms and as a vital asset to society.
2. Acquire competency in their chosen area of study.

3. Acquire an understanding of the history of the theatre and/or dance including its literature and criticism.
4. Develop responsible standards of criticism regarding the aesthetics of theatre and/or dance.
5. Develop research skills/techniques applicable to scholarly and/or production needs.
6. Develop an understanding of the collaborative nature of theatre and/or dance by active participation in production work within the program.