

PROGRAM LEARNING OUTCOMES

BARTON COMMUNITY COLLEGE

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PROGRAM LEARNING OUTCOMES

Program Learning Outcomes (PLOs) identify the core identity and values of a program. As part of Barton's efforts to keep student learning at the forefront of Instructional Review, each area has developed PLOs and means of assessing them.

Upon completion of the respective curriculum for a given program or instructional area, a student will be able to:

Adult Healthcare – Certified Nurse Aide (CNA)

1. Identify and employ legal and ethical implications
2. Describe and demonstrate effective communication with the healthcare team and those individuals receiving care
3. Demonstrate safe implementation of skills for Certified Nurse Aides

Adult Healthcare – Certified Medication Aide (CMA)

1. Apply safe and efficient use of medications
2. Identify and employ legal and ethical implications

Agriculture

1. Recognize and demonstrate the importance of the agriculture industry at local, national, and global levels economically and environmentally
2. Analyze the relationship of agriculture's purpose to provide and safeguard the food, fiber, and fuel supply with innovative, effective operational management skills to meet the needs of a growing population in an environmentally responsible manner

Business

1. Identify and explain areas of business
2. Identify and demonstrate the essential skills needed in the workplace

Carpentry

1. Dry-in a building, with a simple gable roof, from a set of plans
2. Estimate the rough framing materials, for a simple gable building, from a set of plans
3. Work safely on a job site

Commercial Driver's License (CDL)

1. Understand the importance of the interaction between the driver and commercial motor vehicle, safe operating procedures, and expectations of drivers according to Federal Motor Carrier Safety Administration regulations
2. Demonstrate proficiency in vehicle inspections and Behind the Wheel range and public road skills according to Federal Motor Carrier Safety Administration regulations

Communications

1. Communicate effectively in both verbal and written form
2. Evaluate the role of communication in diverse societies

Computer Programming

1. Demonstrate a comprehensive understanding of computer technology
2. Demonstrate the ability to problem solve
3. Exhibit basic programming knowledge

Criminal Justice

1. Identify the interrelationship of each component of the criminal justice system, courts, corrections, and law enforcement
2. Draw conclusions based on crime data

Dance

1. Demonstrate and understand the creative process through choreographed and improvised movement projects applying timing (musicality), space, and movement dynamics
2. Apply kinesiology based technique and performance qualities to expressive movement with physical clarity
3. Describe, analyze, and reflect upon historical, cultural, and theatrical styles of movement by use of their appropriate terminologies
4. Present themselves with professionalism through self-discipline, being prepared for the demands of a dancer, and collaborate with others

Developmental Education

1. Demonstrate comprehension of the rudimentary reading, writing, and math skills
2. Apply critical thinking to create, expand, and solve problems
3. Use, demonstrate, and identify appropriate communication and collaboration across various contexts (i.e., intrapersonal, small group)

Dietary Manager

1. Gather and apply nutrition data
2. Demonstrate foodservice management tasks in a variety of settings
3. Manage foodservice personnel and communications
4. Interpret and implement sanitation and safety regulations
5. Perform business operations important to foodservice

Early Childhood

1. Recognize and analyze developmental stages from birth through adolescents
2. Implement and integrate the importance of developmentally appropriate practices for individual learning styles, needs, and interests plus learning outcomes of young children

Education

1. Understand, appreciate, and utilize diverse peoples, thoughts, and perspectives in an educational environment
2. Become a reflective practitioner
3. Observe, analyze, and evaluate teaching materials/techniques
4. Communicate effectively to other people orally and through writing and listening
5. Have a historical and technological literacy of education

Emergency Medical Services (EMS) Education – Advanced Emergency Medical Technician (AEMT)

1. Recognize a medical emergency; assess the situation; manage emergency
2. Initiate and continue emergency medical care under the supervision of a preceptor, including the recognition of presenting conditions and initiation of appropriate invasive and non-invasive therapy

Emergency Medical Services (EMS) Education – Emergency Medical Technician (EMT)

1. Recognize a medical emergency; assess the situation; manage emergency
2. Initiate and continue emergency medical care under the supervision of a preceptor, including the recognition of presenting conditions and initiation of appropriate invasive and non-invasive therapy

Emergency Medical Services (EMS) Education – Paramedic (PARA)

1. Initiate and continue emergency medical care under medical control including the recognition of presenting conditions and initiation of appropriate invasive and non-invasive therapy
2. Lead teams

Emergency Management and Homeland Security (EMHS)

1. Determine and analyze the relationships of local, state, federal, business/industry, and citizen roles in emergency management
2. Explain how the emergency management cycles play a role in all aspects of emergency management/homeland security functions

English

1. Analyze and critique literary text for context (historical, religious, political, social, or cultural)
2. Demonstrate an understanding of the writing process
3. Analyze and critique literary text for genre, conventions, and techniques

English for Speakers of Other Languages (ESOL)

1. Demonstrate ability to comprehend and interpret spoken and written forms of English
2. Demonstrate the ability to effectively communicate in interpersonal and academic situations

Fine Arts

1. Articulate the visual elements and principles of design
2. Use critical thinking demonstrated through writing, creativity, and critiques
3. Develop works of art that can be included in a student portfolio

Hazardous Materials Management (HZMT)

1. Determine and analyze the relationships of local, state, federal, and business/industry regulations in hazardous materials management
2. Explain the procedures necessary to prepare for safe operations working with or around hazardous materials
3. Explain how hazardous materials management is utilized in the larger context of emergency services

Health, Physical Education, and Recreation (HPER)

1. Understand the legal and ethical aspects related to health, physical education, and recreation
2. Comprehensive understanding of the human body in activity
3. Communicate effectively at individual and group levels
4. Practical application of techniques
5. Conduct activity in a safe manner

Humanities

1. Demonstrate critical thinking through objective analysis and evaluation of an issue through multiple perspectives
2. Communicate effectively in written or oral form
3. Demonstrate research skills
4. Evaluate significant historical and cultural foundational people, events, and texts

Life Sciences

1. Obtain the fundamental science skills and a deep understanding of the scientific principles governing life on our planet
2. Draw logical conclusions using critical thinking skills
3. Evaluate scientific issues that affect daily life and society

Mathematics and Statistics

1. Communicate the justification for a theorem or mathematical concept
2. Determine and analyze the relationships between data (numerical), functions and graphs

Medical Laboratory Technology (MLT)

1. Demonstrate their knowledge of general laboratory practices and clinical laboratory skills and in the areas of specimen collection, clinical chemistry, immunohematology, parasitology, and pathogenic microbiology, hematology, immunology, and urinalysis
2. Define and demonstrate the affective behaviors needed in the healthcare environment by the laboratory professional

Medical Support – Medical Administrative Technology (MADT)

1. Identify and employ legal and ethical implications
2. Formulate effective communication for patients and co-workers

Medical Support – Medical Assistant (MASS)

1. Apply safe and efficient use of medications
2. Demonstrate skills required of a Medical Assistant

Medical Support – Medical Coding (MCOB)

1. Demonstrate knowledge of medical terminology
2. Perform administrative competencies as it relates to an entry-level medical coder position in accordance with regulations, policies, laws, and patient rights

Military Programs

1. Demonstrate the ability to apply sustainable military related job skills
2. Demonstrate problem solving skills by defining specific procedures or regulations

Music

1. Demonstrate the ability to hear, identify and work with elements of music (melody, harmony, rhythm, form, texture, and timbre) in sound and notation
2. Develop skills for pre-professional musicians including the use of technology, musical pedagogy, and ensemble participation

Natural Gas Transmission & Distribution

1. Identify and diagnose complex gas field problems by applying principles of engineering, science, and mathematics
2. Apply knowledge and hands-on skills that are necessary to resolve maintenance and operation issues encountered in the natural gas fields, considering public health and safety as well as the preservation of the environment
3. Recognize the technical requirements set by regulatory agencies to regulate the natural gas field activities

Nursing Education – Practical Nurse (PN)

1. Provide an environment that is safe and reduces risk of harm for clients, self, and others
2. Demonstrate accountability for client care that incorporates legal and ethical principles, regulatory guidelines, and standards of nursing practice

Nursing Education – Registered Nurse (RN)

1. Manage care and provide leadership to meet client needs using available resources and current technology
2. Generate Teaching and learning processes to promote and maintain health and to reduce risks for a global population

Occupational Safety and Health (OSHA)

1. Determine and analyze the relationship of local, state, federal, business/industry and citizen roles in OSH practices
2. Explain how hazard recognition is utilized in the larger context of OSH practices in the workplace

Pharmacy Technician

1. Recognize the impact the pharmacist and pharmacy technician have in health care
2. Demonstrate the ability to apply basic pharmacy technician concepts in a pharmacy setting

Physical Sciences

1. Record, analyze and interpret data using appropriate scientific judgment to draw conclusions
2. Solve problems by applying principles of science and mathematics

Plumbing

1. Explain how a PVC DWV Plumbing System Works
2. Understand and Draw Plumbing System blueprints

Scale Technician

1. Demonstrate a working knowledge of the rules of the scales industry, Handbook 44 and 112, and apply these rules to install, maintain, and certify commercial scales
2. Apply the appropriate state rules and regulations to install, maintain, and certify commercial scales

Social Sciences

1. Describe societal and behavioral structures, both normative and diverse, that effect individual and group behavior
2. Interpret and apply research and evidence-based practice in an ethical manner
3. Apply theoretical framework reflecting the historical foundation and evolution of understanding

Welding

1. Identify and explain the American Welding Society identification of welding electrodes
2. Demonstrate the proper amperage and voltage settings of a welding machine