

Long Beach City College
Program Student Learning Outcomes

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Administration of Justice

1. Explore the history, development, structure and functions of the American criminal justice system.
2. Apply criminological/criminal justice theories, principles, and concepts to address real-life situations in the field.
3. Recognize the importance and practice of legal and ethical behavior in a professional criminal justice work setting.
4. Analyze, interpret, and evaluate criminological/criminal justice theories, policies, practices and procedures to develop strategies to control and prevent crime.

Administrative Assistant

1. Create a variety of documents using Office Suite Software.
2. Demonstrate and apply effective written, oral, and nonverbal communication techniques to a variety of organizational situations.

Advanced Transportation Technology: Alternative Fuels

1. Safely work on high pressure and low temperature fuels without injury.
2. Diagnose and repair computer controlled and gaseous fueled engines.
3. Understand and comply with regulations regarding installations and inspections of systems and their related components.

Advanced Transportation Technology: Electric Vehicles

1. Safely work on the high Voltages present in Electric Vehicles without injury.
2. Diagnose and repair computer controlled Electric Vehicles including hybrids, fuel cells, and plugs in electrics, regarding installations and inspections of systems and their related components.
3. Compare the differences, advantages, and limitations of the various Electric Vehicles to determine proper application of each technology.

Anthropology ADT

1. Analyze and describe the major concepts, theoretical perspectives, and empirical evidence on the cultural and/or biological evolution of the human species.
2. Utilize the scientific method to analyze the advantages and limitations of various anthropological research methodologies used to address our understanding of the cultural and/or biological evolution of the human species.

Architectural Design

1. Be aware of program transfer requirements and prepared for successful transfer to a university level architectural and/or other environmental design degree program.
2. Acquire the professional attitude and desire for life-long learning and stay current with advanced technologies.
3. Students possess the necessary technical knowledge and communication skills to identify, articulate and solve problems pertaining to the built environment and perform tasks required within the architecture and/or environmental design professions.

Art

1. Produce professional quality artwork that demonstrates skill, craftsmanship, comprehension of visual design, and aesthetic conceptual rigor.
2. Develop a foundation of skills, craft, traditional, and digital technologies.
3. Analyze, interpret, and exercise critical judgment in the evaluation of visual art forms.

Art History ADT

1. Demonstrate knowledge of significant examples of the visual arts and art historical methodology.
2. Analyze and describe works of art based on how they communicate meaning visually.
3. Utilize critical thinking to evaluate and discuss works of art in a variety of historical and cultural contexts.

Athletics

1. The Athletic department will encourage and monitor academic success of student-athletes.

Baking and Pastry Arts

1. Create a yeast bread product to industry standards.
2. Create a pastry product to industry standards.
3. Synthesize the principles and reactions of basic baking ingredients and their properties alone and when combined with other ingredients.
4. Demonstrate industry-standard kitchen safety and sanitation practices.

Biological Sciences

1. Assimilate information from various sources and apply critical thinking to form evidence-based conclusions (scientific method) to issues in the realm of biology, health, and as a consumer in society.
2. Demonstrate an understanding of all levels of organismal biology such as morphological, physiological, and developmental.
3. Demonstrate knowledge of the importance of the diversity of organisms on earth and their ecological and evolutionary relationships including human impact on other organisms (or the reciprocal) and ecosystems.

Business

1. Ensure that 85% of all courses meet or exceed their outcome/assessment goals and develop appropriate action plans for continuous improvement.
2. Develop strategies throughout all concentrations/courses to enhance the development of our students' critical-thinking skills: their ability to reason, ask appropriate questions and make strong decisions.
3. Develop assignments and/or exercises to enhance students' verbal and non-verbal skills: their ability to reflect, write, speak and respond in a personal and professional manner.
4. Improve the level of student success and student retention as well as increase the number of degrees and certificates.
5. To develop a strong working relationship with local businesses through the formation of an Industry Council for the purpose of advisement and collaboration in order to ensure that our course offerings are providing our students with the strongest preparation for entering the workforce. Additionally, it would be our goal for this Council to develop strong feelings for LBCC students and to evolve these feelings into actual job opportunities.

Business Administration ADT

1. Comprehend the primary elements of the language and theories of the business environment and demonstrate an understanding of basic mathematics and technology fundamentals.
2. Use creative and critical-thinking strategies in the solution of complex business situations through the application of business, mathematical and technological skills.
3. Develop communication and teamwork skills for the purpose of ensuring future personal and professional success.

Child Development: Early Childhood Education

1. Design, implement, and evaluate environments and activities that support optimum developmental play and learning outcomes for all young children.
2. Demonstrate responsive care and teaching practices for young children through the integration of assessment, theory, and practice.
3. Critically assess the components of linguistically and culturally relevant, inclusive, age appropriate, anti-bias approaches in promoting optimum learning and development.
4. Apply effective guidance and interaction strategies to support children's social learning, peer relations, and self-confidence.
5. Incorporate ethical and professional standards engaging in collaborative learning and reflective practices.

Child Development: Early Childhood Education ADT

1. Design, implement, and evaluate environments and activities that support optimum developmental play and learning outcomes for all young children.
2. Demonstrate responsive care and teaching practices for young children through the integration of assessment, theory, and practice.
3. Transfer from LBCC to a University.
4. Apply effective guidance and interaction strategies to support children's social learning, peer relations, and self-confidence.
5. Incorporate ethical and professional standards engaging in collaborative learning and reflective practices.

Child Development: Special Education Assistant

1. Design, implement, and evaluate environments and activities that support optimum developmental play and learning outcomes in an inclusive environment for all children.
2. Demonstrate responsive care and teaching practices for all children through the integration of assessment, theory, and practice.
3. Apply effective guidance and interaction strategies to support all children's social learning, peer relations, and self-confidence.
4. Incorporate ethical and professional standards engaging in collaborative learning and reflective practices.

Communication Studies

1. Develop and apply critical thinking and persuasive communication strategies.
2. Formulate and implement effective oral presentations.

Communication Studies ADT

1. Develop and apply critical thinking and persuasive strategies.
2. Demonstrate an understanding of basic communication theory.
3. Formulate and implement effective oral presentations.

Computer Science

1. Demonstrate a knowledge of common algorithms, their performance, and what applications to use them for.
2. Create computer programs with object oriented design principles, and demonstrate a solid understanding of the practice of programming.
3. Articulate the basic structures of a processor and their relation to each other and performance, and demonstrate an understanding of assembly language.

Computer Security and Networking

1. Install, configure, manage and troubleshoot a small office or home office network (wired or wireless).
2. Secure wired and wireless networks.
3. Install, configure, and manage client and server operating systems.
4. Harden servers against intrusion.

Computer Technology

1. Prepare students for transfer to baccalaureate-granting institutions.
2. Provide educational and career opportunities in the computer technology field.

Counseling

1. Students will identify and recognize counseling services as an integral part to student success. Students will demonstrate a depth of knowledge on the requirements for individual educational objectives and apply it to the enrollment pattern. Students will differentiate between transferable GE requirements and lower division requirements.
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3. Students will differentiate between transferable GE requirements and lower division requirements.

Culinary Arts

1. Propose and assemble a complete three course meal from a given set of ingredients and select the most appropriate tools and equipment for each task.
2. Compare and contrast the different knives used in a kitchen and effectively demonstrate their uses with competence.
3. Analyze a plated meal, distinguish the different cooking techniques and methods used in its preparation, and critique the flavor, the plating, and the garnish.
4. Demonstrate industry-standard kitchen safety and sanitation practices.

Customer Support

1. Demonstrate and apply effective written and oral communication techniques to a variety of customer service situations.
2. Problem solve common information technology failures.

Dance

1. Develop a basic knowledge and experience of live performance synthesizing dance technique and creativity.
2. Develop a respect for dance as a means of personal, cultural, or social expression.

Database Management

1. Analyze the data needs of an organization or company and determine how to best organize and store the data in logical, secure, and accessible structures.
2. Design web applications to access and manipulate data using MS Access, MySQL, MS SQL Server and PHP.
3. Understand the roles and responsibilities of a database administrator and how to diagnose and troubleshoot systems.

Diagnostic Medical Imaging

1. Diagram the photographic and digital process and define the technical factors utilized in medical image formation.
2. Distinguish the fundamental structure of matter, diagram the production of x-rays, and examine how different radiographic techniques effect the resulting image on a radiograph.
3. Assess how radiation effects body systems, differentiate between different types of radiation and their effects on human tissue, and formulate ways to decrease exposure.
4. Manage proper patient positioning of the skeletal system, cranium, and viscera to achieve industry standard radiograph.
5. Demonstrate ability to properly use all equipment required to produce a diagnostic radiograph; produce an industry standard and diagnostic radiograph.

Dietetics

1. Synthesize the theory and principle of clinical nutrition care.
2. Manage a healthcare kitchen to industry standards.
3. Develop and conduct a nutrition presentation within a community agency.

Digital Design and Publication

1. Write, design, and produce a publication.
2. Prepare students for entry-level positions in desktop publishing.

Drafting: Architectural

1. Establish mastery of basic knowledge and skills and apply advanced technologies relevant to entering the architectural drafting and design field at an entry or advanced level.
2. Develop career awareness, planning, employability skills, work habits, and the foundational knowledge necessary for success in the workplace.
3. Possess the necessary technical knowledge and communication skills to identify, articulate and solve problems pertaining to the built environment and perform tasks required within the architecture and/or environmental design professions.

Drafting: Mechanical and Design

1. Develop career awareness, planning, employability skills, work habits, and the foundational knowledge necessary for success in the workplace.
2. Establish mastery of basic knowledge and skills and apply advanced technologies relevant to entering the mechanical drafting and design field at an entry or advanced level.
3. Possess the necessary technical knowledge and communication skills to identify, articulate and solve problems pertaining to the industrial manufacturing environment and perform tasks required within the mechanical design drafting professions.

Electrical Technology

1. Analyze different types of power distribution systems and apply these systems in a design environment.
2. Design commercial building blueprint design project: applying motor, transformer, power distribution and short-circuit calculations meeting all the requirements of the National Electrical Code.
3. Design and evaluate control system programs for the operation of automation systems, including timing, counting, sequential and process control operations.

Engineering

1. To serve students for the fulfillment of their own personal goals.
2. To serve students to meet career/transfer requirements.

English

1. Write academic prose with a clear purpose and effective logical, relevant support from sources.
2. Develop and sustain a coherent interpretation of literature that acknowledges historical and cultural contexts.
3. Compose poems and short works of fiction using various forms and techniques.

English ADT

1. Write academic prose with a clear purpose and effective logical, relevant support from sources.
2. Develop and sustain a coherent interpretation of literature that acknowledges historical and cultural contexts.
3. Compose poems and short works of fiction using various forms and techniques.

English as a Second Language

1. Create grammatically correct sentences at the end of the intermediate-level grammar classes.
2. Write a focused thesis statement and maintain unity throughout an essay.
3. Analyze short readings.

English as a Second Language Learning Center

1. Students will find current and appropriate study materials.
2. Accurately maintain records of the assignments and attendances of students using the ESLLC.

Family and Consumer Studies

1. Develop skills and work place competencies needed for success in the work place.
2. Analyze cultural forces and their effects on the individual and family.
3. Evaluate and develop personal finance plans.

Fashion Design

1. Create an environment that promotes critical thinking, creativity, teamwork, soft skills, multicultural and global awareness and understanding of social organizational and technological systems.
2. Provide educational opportunities in the field of fashion for career employment, advanced study and professional development.
3. Predict fashion trends and analyze form, silhouette, proportion, texture and drape of fabric to develop a fashion line for a target customer.

Fashion Design: Asst. Designer

1. Create an environment that promotes critical thinking, creativity, teamwork, soft skills, multicultural and global awareness and understanding of social organizational and technological systems.
2. Provide educational opportunities in the field of fashion for career employment, advanced study and professional development.
3. Predict fashion trends, sketch in flat technical drawings, spec and analyze form, silhouette, proportion, texture and drape of fabric to develop a 2 dimensional fashion line for a target customer and company.

Fashion Merchandising

1. Create an environment that promotes critical thinking, creativity, teamwork, soft skills, multicultural and global awareness and understanding of social organizational and technological systems.
2. Provide educational opportunities in the field of fashion for career employment, advanced study, and professional development.
3. Calculate mark-ups, markdowns and open-to buy using formulas.

Film

1. Ability to synthesize a lower-division level of principles and theories related to visual story telling using cinematic structure.
2. A respect for film as a means of personal, cultural, or social expression synthesizing production technique and creative vision.

Fire Science

1. Explore the history, development, structure, and functions of the American fire service.
2. Apply prevention/protection/fire-fighting theories, principles, and concepts to address real-life situations in the field.
3. Recognize the importance of and practice of the safety behaviors in a professional fire service setting.
4. Analyze, interpret, and evaluate prevention/protection/fire fighting theories, policies, practices, and procedures to develop strategies to prevent, control, and fight fires.

Floral Design

1. Develop foundational knowledge and skills for the design and production of industry acceptable floral displays.
2. Develop work place competencies needed for employment in the floral design field.
3. Analyze, interpret and exercise critical judgment in the evaluation of floral artforms.

Foreign Languages

1. Students will demonstrate reading comprehension at the appropriate level in the target language.
2. Students will demonstrate aural comprehension at the appropriate level in the target language.
3. Students will formulate ideas orally at the appropriate level in the target language.
4. Students will formulate ideas in writing at the appropriate level in the target language.

Geography ADT

1. Apply scientific research methods and technologies to observe, collect and analyze geographic data and information regarding human-environment interactions.
2. Communicate an understanding of the importance of geographical processes and spatial interactions.

Geology ADT

1. Differentiate between unsupported opinion and verifiable scientific fact supported by observations, experiments, and scientific theory.
2. Demonstrate a basic understanding of the field of geology by applying basic geologic concepts verbally and in writing.

History ADT

1. Develop the ability to critically analyze topics in history using a variety of primary and secondary sources and understand the causes and effects of historical events, thereby identifying and articulating problems, theses, arguments, evidence and conclusions about the significance of historical change and continuity over time.
2. Develop an understanding of their roles in society, take responsibility for their own actions, and make ethical decisions in complex situations.'
3. Articulate similarities and differences among cultures, times, and environments, demonstrating an understanding of cultural pluralism, as well as value the importance of diverse perspectives in history.

Honors

1. Students are able to enroll in the honors courses that they need to take.
2. Students receive academic counseling tailored to their needs as honors students.
3. Adequate academic records are kept on each honors student to assure compliance with program requirements.

Horticulture

1. Distinguish 100 landscape plants suitable for different landscape situations with proper cultural practices.
2. Demonstrate safe and efficient competence with hand and power tools used in the trade.
3. Demonstrate fundamental technical skills to cultivate and manage edible and ornamental plants in horticultural production systems.
4. Demonstrate fundamental landscaping principles to layout and install residential gardens.

Human Services

1. Develop a psychosocial treatment plan for a client.
2. Analyze information and assess level of crisis intervention needed to best meet client needs.

Human Services: Drug and Alcohol Studies

1. Develop a psychosocial treatment plan for a client.
2. Synthesize the theories and principles of drug and alcohol clinical evaluation, treatment planning, referral, service coordination, counseling, documentation, and professional/ethical responsibilities.

Journalism

1. Gather and prepare material accurately and fairly while meeting deadlines.
2. Apply teamwork skills to publish a newspaper, magazine, or website.

Kinesiology

1. Demonstrate knowledge of rules, strategies, techniques, and etiquette of various activities to promote lifelong fitness.
2. Demonstrate knowledge of basic aspects of a training/fitness program.
3. Kinesiology majors will recognize various career opportunities in the field of human movement.

Kinesiology ADT

1. Examine and evaluate physical activities and their relationship to wellness and fitness.
2. Demonstrate proficiency in skills needed in activities commonly included in a human movement program.
3. Recognize various career opportunities in the field of human movement.

Learning and Academic Resources

1. Apply newly acquired knowledge and/or learning strategies to their current or future academic endeavors.
2. The Learning and Academic Resources areas will provide satisfactory service for each appropriate student request.

Library

1. The library will provide satisfactory service for each request throughout the public services areas.
2. The library will provide a variety of up-to-date resources in multiple non-electronic formats.

Library Technician

1. Synthesize the theoretical knowledge and the practical skills for all major components of a working library.
2. Examine and compare information from various sources to evaluate reliability, validity, accuracy, authority, timeliness, and point of view or bias.
3. Identify and internalize library standards, principles, organization, theoretical knowledge, and practices.
4. Demonstrate, via hands-on exercises and activities, the skills required to work and perform at a library technician level.

Mathematics

1. To serve students to meet graduation/GE requirements.
2. To serve students for the fulfillment of their own personal goals.
3. To serve students to meet career/transfer requirements.

Mathematics ADT

1. To serve students to meet graduation for an Associate degree in science mathematics for transfer.
2. To serve students to meet career/transfer requirements.

Mechanical Maintenance Technology

1. Develop internships and networks with the transportation industries to help students attain employment upon the completion of our program.
2. Provide environmental (green), solar, renewable and sustainable energy technology equipment to the curriculum by experienced and highly trained staff using a quality curriculum for students that will equip them with the necessary skills and abilities to succeed.
3. Since November 14, 1994 all refrigerant and air conditioning technicians must be certified by the EPA, and only certified technicians can purchase refrigerants. Our program will provide the necessary information and help students pass this test. Our instructors can give the test. The CTE center will assist in helping the students pass the test. All employers require the universal EPA license as a condition of employment when working with refrigerants.

Medical Assistant: Administrative/Clinical

1. Accurately assess a patient's vital signs.
2. Analyze medical records and accurately construct a medical insurance claim form.
3. Inspect and correctly troubleshoot artifacts while performing an electrocardiogram.
4. Apply common practices of Medical Asepsis in a physician's office and daily living.

Metal Fabrication Technology

1. Perform a common sheet metal layout and fabrication project.
2. Perform common metal fabrication using power machinery to produce a fabrication project.
3. Demonstrate the ability to read and interpret construction blueprints.

Multidisciplinary Success Centers- LAC and PCC

1. The Student Success Centers will provide supplemental learning assistance in a manner that contributes to student success.
2. The Student Success Centers will provide learning assistance in a manner that students report as generally satisfactory.

Music

1. Students will achieve sophomore proficiency ranking in performance repertoire and technique.
2. Students will achieve sophomore proficiency level in theory, musicianship, and piano placement exams.

Music ADT

1. Develop audition and ensemble repertoire and performance techniques at a level appropriate for transfer to a CSU.
2. Develop Proficiency in music coursework, specifically theory and musicianship, at a level appropriate for transfer to a CSU.

Nursing: LVN to RN

1. Synthesize the theories and principles that encompasses the nursing process and pathological conditions.
2. Manage all aspects of the nursing process to achieve positive patient outcomes.

Nursing: RN Associate Degree

1. Synthesize the theories and principles that encompasses the nursing process and pathological conditions.
2. Manage all aspects of the nursing process to achieve positive patient outcomes.

Nursing: Vocational LVN

1. Synthesize theories and principles necessary for licensure as a vocational nurse.
2. Develop entry-level LVN job readiness skills and employment status 1 year post graduation.

Physical Sciences

1. Differentiate between unsupported opinions and verifiable scientific facts supported by observations, experiments, and scientific theory.
2. Demonstrate a foundational scientific understanding of a specific field of science.

Political Science ADT

1. Demonstrate a systematic knowledge of the nature and scope of political science, particularly in terms of American government and politics.
2. Develop the necessary skills to civically participate in ways that support a representative democracy.

Psychology ADT

1. Analyze the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
2. Apply basic research methods in psychology, including research design, data analysis, and interpretation.
3. Examine problems related to behavior and mental processes through the scientific approaches of critical thinking, creative thinking, and skeptical inquiry.

Radio/TV: Broadcast News

1. Integrate and arrange script, graphics, B-roll, music, and soundbites into an industry ready newscast segment.
2. Critically assess the responsibilities of various creative and technical staff positions and evaluate the importance of each to the production.
3. Analyze the elements of pre-production, production, and post-production to create an industry ready news segment.

Radio/TV: Performance

1. Analyze and demonstrate the physical characteristics of on-air talent required to make an industry ready production segment.
2. Critically assess the responsibilities of various creative and technical staff positions and evaluate the importance of each to the production.

Radio/TV: Producer

1. Demonstrate collaboration skills related to personnel and time lines for an industry ready radio or television segment.
2. Critically assess the responsibilities of various creative and technical staff positions and evaluate the importance of each to the production.

Reading

1. Analyze and evaluate college-level text.
2. Students will reflect and analyze how applying reading strategies improves their academic and personal literacy.

Social Sciences

1. Students will apply theories from the disciplines in the Social Science Program to analyze and explain human behavior as individuals and/or in groups.
2. Students will be able to distinguish between fact and opinion, identify credible evidence, and analyze arguments.
3. Students will apply perspectives and frameworks from the disciplines in the Social Science program to explain and solve challenges related to accommodating and appreciating human diversity.

Sociology ADT

1. Apply sociological imagination and sociological theories to contemporary analysis of public issues.
2. Identify and evaluate sociological scientific research, including research design, research methods, data analysis, and interpretation.

Theatre Arts

1. Develop a basic knowledge and experience of live performance synthesizing lower-division level principles and theories of acting, production techniques, and creativity.
2. Develop a respect for theatre as a means of personal, cultural, or social expression.

Web Development

1. Create websites by employing several web design tools and programming languages.
2. Demonstrate and apply effective web development skills for a variety of industries and organizational situations.