Long Beach City College promotes equitable student learning and achievement, academic excellence, and workforce development by delivering high quality educational programs and support services to our diverse communities.

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New Courses
The following new courses are effective Fall 2016

ELECT 231 3.0 units

Electro-Hydraulics and Pneumatic Systems
45 hours lecture, 27 hours laboratory
Prerequisite: ELECT 435A
Grading: letter grade

This course covers the operation and troubleshooting of electro-hydraulic and electro-pneumatic (fluid power) systems. Control of fluid power systems with automation devices including Programmable Logic Controllers (PLCs) is included. This is a hands-on course with work on operating hydraulic and pneumatic actuators and controls.

ELECT 246 2.0 units

NFPA 70E for Manufacturing
36 hours lecture
Prerequisite: ELECT 240
Grading: letter grade

The NFPA 70E is an industry consensus standard for electrical safety in the workplace. This standard provides practical methods for protecting personnel from electrical workplace hazards. Students will learn how to identify factors relating to electrical safety and how to properly correct these problems. Safe work place practices and the selection of proper personal protective equipment will be covered.

ELECT 254 2.0 units

OSHA Standards for General Industry
36 hours lecture
Grading: letter grade

This course covers OSHA (Occupational Safety and Health Administration) policies, procedures, and standards, as well as industrial safety and health principles. Topics include scope and application of the OSHA General Industry safety standards. Special emphasis is placed on those areas that are the most hazardous, using OSHA standards as a guide. Upon successful course completion, the student will receive an OSHA 30 Hour General Industry Safety Outreach Training Completion Card.

ELECT 256 1.0 unit

High Voltage Safety Awareness
18 hours lecture
Prerequisite: ELECT 246
Grading: letter grade

The focus of this course is on voltages over 600 volts, which in the workplace presents unique and potentially deadly hazards to employees. The course covers the recommended best safety practices, personal protective equipment, and safe approach distances for working with voltages between 600 volts and 16k volts. Industry standards from OSHA (Occupational Safety and Health Administration) and NFPA 70E (National Fire Protection Association) are covered.
**ELECT 435C**  
3.0 units

**HMI and Advanced PLC Programming**

45 hours lecture, 27 hours laboratory  
Prerequisite: ELECT 435B  
Grading: letter grade

This course is an introduction to Human Machine Interface (HMI) concepts and programming along with advanced Programmable Logic Controller (PLC) programming. This is a hands-on class with programming of displays and PLCs which will build upon programming skills learned in ELECT 435B. Introductory process control, factory automation and SCADA (Supervisory Control and Data Acquisition) concepts are covered.

**ENGL 105AX**  
5.0 units

**Accelerated Fundamentals of Writing**

90 hours lecture  
Recommended Preparation: Qualification through the LBCC Assessment process  
Grading: letter grade

This course prepares students for college writing through a highly intensive, accelerated format, focusing on expository and argumentative writing, standard English, and critical thinking and reading. During the semester, students are required to complete 3 hours of supplemental learning activities in a Success Center. Successful completion allows students to enroll in ENGL 1.

**GBUS 25**  
3.0 units

**Digital and Social Media**

54 hours lecture  
Grading: letter grade or pass/no pass

In this course, students will explore the design and impact of digital and social media technologies for both personal and professional application in a wide variety of organizational situations. Additionally, students will learn to understand digital and social media etiquette and ethics. Both the potential and the limitations of this technology will be explored and students will have access to hands-on experience with several forms of social media technology. Those who complete this course will be prepared to use digital and social media productively and will have a framework for understanding and evaluating new technology tools and platforms as they are developed. This course is not open for credit to students who have completed BCOM 25. Transferable to CSU

**HIST 33**  
3.0 units

**Introduction to Chicana/o History**

54 hours lecture  
Grading: letter grade

This course is a survey of major political, economic, social, and cultural trends and events in United States history from a Chicana/o perspective. The course traces flash points of American and Chicana/o History from the Pre-Columbian era, the colonial era, the U.S. Mexican War, the Gold Rush period, Repatriation, World War II, the Civil Rights movement, and current issues impacting Chicana/os in the twenty-first century. Emphasis is placed on this group's identity formation, experiences, and contributions to the development of the United States. Transferable to CSU
**HLED 21**  
3.0 units

**Introduction to Public Health**

54 hours lecture  
Recommended Preparation: ENGL 105 or ESL 34x or Qualification for ENGL 1 through assessment process.  
Grading: letter grade or pass/no pass

This course provides an introduction to the discipline of Public Health and satisfies the requirements of the Public Health Transfer Model curriculum. Students will gain an understanding of the basic concepts and terminologies of public health, and the history and accomplishments of public health officials and agencies. An overview of the functions of various public health professions and institutions, and an in-depth examination of the field of public health will be addressed. Topics of the discipline include the epidemiology of infectious and chronic disease, prevention and control of diseases in the community including the analysis of the social determinants of health and strategies for eliminating disease, illness and health disparities among various populations, community organizing and health promotion programming, environmental health and safety, global health, and healthcare policy and management.  
Transferable to CSU

**HLED 22**  
3.0 units

**Health and Social Justice**

54 hours lecture  
Recommended Preparation: ENGL 105 or ESL 34x or Qualification for ENGL 1 through assessment process.  
Grading: letter grade or pass/no pass

This course provides an introduction to health inequities/disparities in the United States. Students will explore how education, socioeconomic status, racism and gender impact health outcomes, access to health care, and policy development. Students will analyze public health issues and the skills for advocating for health and social justice. Case studies will include prevalent health issues, such as obesity, drug addiction, chronic disease, and newly emerging infectious disease.  
Transferable to CSU

**HLED 24**  
3.0 units

**Drugs, Health and Society**

54 hours lecture  
Recommended Preparation: ENGL 105 or ESL 34X or Qualification for ENGL 1 through the LBCC assessment process.  
Grading: letter grade

This course provides an overview of substance use and abuse in the United States and the impact on personal and public health. In addition to the concept of substance abuse and dependence, the course will cover the distinction between licit and illicit drugs, risk factors, the pharmacology of various drugs, and the neurological and physiological effects on the central nervous system. An analysis of health, social, political and economic factors relative to legal and illicit drugs will also be examined. Epidemiological data on the prevalence, incidence and trends as it pertains to smoking, alcohol, prescription and other drug dependencies in the U.S. will be considered. Prevention, treatment and rehabilitation methods will also be discussed.  
Transferable to CSU
LING 3  3.0 units

Introduction to World Languages
54 hours lecture
Recommended Preparation: LIB 1 and LING 1 and ENGL 1
Grading: letter grade

This course provides an introduction to the languages of the world: the diversity, structural characteristics, and methods of classifying languages into families and types. It examines the distinctive features of several representative languages through class discussion, readings, and online materials. It addresses pidgins and creoles; unaffiliated languages; language contact; language endangerment, death, and revitalization; and new directions in research, along with related ethical and socio-political issues and concerns.
Transferable to CSU

MTFAB 90  3.0 units

Computer Integrated Manufacturing
36 hours lecture, 72 hours laboratory
Recommended Preparation: MATH 815 or ELECT 202 and ENGL 801A or equivalent
Grading: letter grade or pass/no pass

This course covers the integration of engineering technology principles and automation in manufacturing environments. Students will create three-dimensional designs with modeling software and produce actual components of their designs on Computer Numerically Controlled (CNC) machine tools. Additional topics covered include machine tool operations, simulations, Rapid Prototyping (RP), robotics, and manufacturing systems.
Transferable to CSU

POLSC 2H  3.0 units

Honors Comparative Government
54 hours lecture
Prerequisite: Qualification for the Honors Program
Recommended Preparation: ENGL 1
Grading: letter grade

This course introduces students to analytical methods used to compare political systems and governments. It examines the politics of selected states from among industrial and post-industrial democracies, developing countries, and communist and post-communist systems. Issues given particular attention include democratization, economic development, ideologies, political culture, trans-state organizations, globalization, and political change.
Transferable to CSU
POLSC 4H 3.0 units

Honors World Politics
54 hours lecture
Prerequisite: Qualification for the Honors Program
Grading: letter grade or pass/no pass

This course is an introduction to recent and contemporary international relations, foreign policy-making institutions, and the politics of selected foreign states. This class satisfies one lower division social science requirement for majors in political science, history, sociology, humanities, physical sciences and life sciences at UCLA.
Transferable to CSU

TEC 20 3.0 units

Introduction to Engineering and Design
36 hours lecture, 72 hours laboratory
Grading: letter grade

In this course, students will gain a basic understanding of the design process used in engineering fields and the application of computer modeling software. Emphasis is placed on the design process, geometric relationships, multi-view drawings and assembly drawings per American Society of Mechanical Engineers Y14.5 (ASME Y14.5) standards, drawings for production and various manufacturing processes, modeling, 3D printing and packaging.
Transferable to CSU

TEC 30 3.0 units

Principles of Engineering Technology
36 hours lecture, 72 hours laboratory
Recommended Preparation: MATH 110 or MATH 110B or MATH 880
Grading: letter grade or pass/no pass

This course introduces the student to principles of engineering technology by the use of activity-based learning, project based learning, and problem-based learning. The student will learn about the design process, communication and documentation, engineering systems, statics and strength of materials, properties of materials and materials testing, reliability, and kinematics.
Transferable to CSU
## Inactive Courses

The following courses have been inactivated effective Fall 2016

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCOM 216</td>
<td>Professionalism in Social Media</td>
<td>3.0</td>
</tr>
<tr>
<td>COSN 3</td>
<td>Operating Systems: Software and Hardware</td>
<td>4.0</td>
</tr>
<tr>
<td>COSK 202</td>
<td>Advanced Keyboarding and Document Production</td>
<td>3.0</td>
</tr>
<tr>
<td>COSW 221</td>
<td>Database Programming with PHP/MySQL</td>
<td>3.0</td>
</tr>
<tr>
<td>CULAR 200</td>
<td>Introduction to Chocolate</td>
<td>1.0</td>
</tr>
<tr>
<td>CULAR 271AD</td>
<td>Work Experience: Food Services</td>
<td>2.0</td>
</tr>
<tr>
<td>DANCE 60</td>
<td>Special Projects in Dance</td>
<td>2.0</td>
</tr>
<tr>
<td>FIRE 298A</td>
<td>Exp Fire Tools, Equipment and Related Tech</td>
<td>1.0</td>
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<tr>
<td>FILM 35</td>
<td>Film Production Workshop</td>
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<td>FILM 60</td>
<td>Special Projects in Film</td>
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<tr>
<td>KING 9</td>
<td>Badminton</td>
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<tr>
<td>KING 12</td>
<td>Baseball</td>
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<tr>
<td>KING 20</td>
<td>Bowling</td>
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<tr>
<td>KING 32</td>
<td>Golf</td>
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<tr>
<td>KING 32B</td>
<td>Golf</td>
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<tr>
<td>KING 83</td>
<td>Tennis</td>
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<tr>
<td>KING 88</td>
<td>Track &amp; Field</td>
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<tr>
<td>KINIA 9AD</td>
<td>Golf (Men)</td>
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<tr>
<td>KINIA 31AD</td>
<td>Golf (Women)</td>
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<tr>
<td>KINPP 13</td>
<td>Dance Aerobic-Professional Preparation</td>
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<td>KINPP 19</td>
<td>Theory of Football</td>
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<tr>
<td>MUSIC 74AD</td>
<td>Solo Vocal Performance (Pop, Jazz, Rock)</td>
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<td>MUSIC 77AD</td>
<td>Studio Performance Techniques</td>
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<td>MUSIC 81</td>
<td>Commercial Keyboard</td>
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<tr>
<td>MUSIC 87</td>
<td>Vocal Jazz Trios, Quintets, Octets</td>
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<tr>
<td>MUSIC 88</td>
<td>Small Studio Lab</td>
<td>2.5</td>
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<tr>
<td>MUSIC 271AD</td>
<td>Work Experience-Music</td>
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</tr>
<tr>
<td>MUSIC 272AD</td>
<td>Work Experience-Music</td>
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<td>MUSIC 273AD</td>
<td>Work Experience-Music</td>
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<tr>
<td>SIGN 633</td>
<td>Beginning Speech Reading (Lip Reading)</td>
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<tr>
<td>SIGN 634</td>
<td>Intermediate Speech reading (lip reading)</td>
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<tr>
<td>TART 12</td>
<td>Beginning Acting</td>
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</tr>
<tr>
<td>TART 13</td>
<td>Intermediate Acting</td>
<td>3.5</td>
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