East Los Angeles College
2019-20 General Catalog – Fall 2019 Supplement

This supplement contains corrections to existing programs in the 2019-20 catalog. In addition, new course descriptions, certificates, or degrees that were state approved after the publication of the 2019-20 print/online catalog are included.

GREEN – Corrections/additions
RED – Deleted
New – Approved for 2019-20
Updates

Distance Education Courses (p. 74-76)

New Online offerings:
BUS 11 Job Retention and Responsibility (1)
COUNSEL 40 College Success Seminar (3)
ECON 60 Statistics for Economics (3)
HEALTH 43 Men's Health and Fitness (3)
KIN MAJ 103 Introduction to Coaching and Athletics (3)
KIN MAJ 117 Personal Trainer Instructor (3)
PHILOS 14 History of Modern European Philosophy (3)
New Hybrid offerings:
ANATOMY 1 Introduction to Human Anatomy (4)
COMM 121 Interpersonal Communication (3)
HEALTH 49 Basic Life Support (BLS) Skills Certification (1)
HEALTH 54 Adult and Pediatric First Aid, CPR and AED Skills Certification (1)
KIN MAJ 114 Techniques of Instruction: Group Fitness (2)
KIN MAJ 115 Techniques of Instruction: Strength Training (2)

Honors Program Courses (p. 77)

New Honors Program Course Offering:
PHYSICS 17 Energy and the Environment (4)

C-ID Approved Courses Chart (p. 88)

NEW: C-ID CHEM 160S ELAC Courses: CHEM 211+CHEM 212
C-ID PHS 100 ELAC Course: HEALTH 11

Correction to Courses (p. 113-116):
General Studies: Arts and Humanities, Associate Degree
Add: CHICANO 27
General Studies: Social and Behavioral Sciences, Associate Degree
Add: CHICANO 25, 26, 31; POL SCI 40

Update – For all three General Studies Degrees (Arts and Humanities, Natural Sciences, Social and Behavioral Sciences) **students have the choice of completing the LACCD GE or CSU GE or IGETC requirements.**

New - Course Transferability Changes effective fall 2019:

BIOLOGY 25 Human Biology (3) **UC:**CSU
BIOLOGY 51 Introduction to Public Health for Scientists and Health Professionals (3) **UC:**CSU
COMM 100 Introduction to Communication Studies (3) **UC:**CSU
CS 211 Advanced Visual Basic Programming (3) **UC:**CSU
CS 213 Advanced Programming in Java (3) **UC:**CSU
COUNSEL 22 The Transfer Process (1) **UC:**CSU
COUNSEL 40 College Success Seminar (3) **UC:**CSU
ECON 20 Statistics for Economics (3) **UC:**CSU
EGD TEK 102 Engineering Graphics with Introduction to GD&T and 2-D CAD (3) **UC:**CSU
HEALTH 43 Men's Health and Fitness (3) **UC:**CSU
HISTORY 20 History of California and the Pacific Coast (3) **UC:**CSU
KIN 248-2 Stretching for Flexibility II (1) **UC:**CSU
KIN 330-2 Cardio Kickboxing III (1) **UC:**CSU
KIN 336-2 Zumba Fitness II (1) **UC:**CSU
KIN 339-2 Spin & Sculpt II (1) **UC:**CSU
LAW 3 Civil Rights and the Law (3) **UC:**CSU
MUSIC 205 Commercial Harmony I (3) **UC:**CSU
MUSIC 206 Commercial Harmony II (3) **UC:**CSU
PSYCH 93 Multivariate Statistical Analysis for the Social and Behavioral Sciences (3) **UC:**CSU
SOC 23 Issues of Manhood in U.S. Society (3) **UC:**CSU
TECTHTR 355 Makeup Practicum (2) **UC:**CSU

Allied Health Department

New Program – Approved for 2019-20

Phlebotomy Technician Certificate of Achievement

Catalog Description:

Certified Phlebotomy Technicians (CPT) and Limited Phlebotomy Technicians (LPT) are allied health professionals who perform skin puncture and venipuncture blood collection in a laboratory, hospital, blood donor center or physician's office. This certificate program includes basic and advanced lectures and skills lab training on topics such as infectious disease control and biohazards, coagulation theory, specimen handling and routing, special collections and procedures, routine venipuncture and arterial blood collection, complications of venipuncture, blood collection in special populations, professional issues on quality control and legal issues in phlebotomy. Phlebotomist training, according to California law, must be obtained in a phlebotomy program approved by the California Department of Public Health.

Required Courses:

HLTHOCC 62	Skill Set for the Health Care Professional (2)
HLTHOCC 63	Basic Medical Terminology, Pathophysiology and Pharmacology (2)
HLTHOCC 64	Cultural and Legal Topics for Health Care Professionals (1)
HLTHOCC 65	Fundamentals for Health Care Professional (2.5)
HLTHOCC 67	Basic Phlebotomy (2)
HLTHOCC 68	Advanced Phlebotomy (2)
HLTHOCC 69	Phlebotomy Technician Directed Clinical Practicum (2)
HEALTH 11	Principles of Healthful Living (3)
	Total units: 16.5

Correction to Respiratory Therapy, Associate in Science Degree Units - p. 150
Required Program Prerequisites: **24-26**
Required Major courses: **53**
Total units: **86-88**

Students in this program are exempt from the **3 unit E1 Health Education and E2 Physical Education Activity requirement, per LACCD Board Rule 6200.**

Correction to Course Description –p. 158

RESP TH 21 Physics of Gas Therapeutics (3)
This course presents an overview of the principles of physics that apply to respiratory care equipment, technology, and patient care including the behavior of gases, airway pharmacology, and mechanical ventilation. Internal heat, gas laws, temperature scales and measurement are covered in detail. Molecular phenomena such as osmosis and dialysis, and the mechanics of the cardiovascular and respiratory systems are applied to bedside patient care. Principles of positive and negative pressure and their relation to ventilation are also explored as well as respiratory pharmacology and airway deposition.

Business Department

Correction to Prerequisite – p. 200
CS 130 Introduction to Computer Architecture and Organization (3) UC: CSU
Prerequisite: Computer Science 116 or Computer Science Information Technology **243**

New Programs – Approved for 2019-20

Executive Legal Assistant Certificate of Achievement
Catalog Description:
This program is designed to give the student essential knowledge of the skills necessary to manage the business aspects of law office operations, together with a fundamental understanding of the legal system indispensable to the performance of a supporting role to attorneys in the practice of law. These courses provide students with basic knowledge of professional office computer systems, accounting and management; combined with an understanding of the legal system and basic knowledge of legal practices and procedures.

Required Courses:

	CO SCI 201	Introduction to Computer Information Systems (3)
OR	CIS 101	Introduction to Computers and Their Uses (3)
	ACCTG 1	Introductory Accounting I (5)
	LAW 1	Business Law I (3)
	LAW 2	Business Law II (3)
OR	LAW 931	Cooperative Education – Law (3)
	BUS 1	Introduction to Business (3)
OR	SUPV 1	Elements of Supervision (3)
		Total units: 17

International Law and Public Policy Administration Certificate of Achievement
Catalog Description:
The International Law and Public Policy Administration Certificate of Achievement provides the student essential knowledge of the skills necessary to manage the business aspects of an international law, business or government office, together with a fundamental understanding of the international legal system indispensable to the performance of a supporting role to by attorneys, business executives, regulators and other legal professionals in international law related industries. These courses provide students with basic knowledge of professional office computer systems combined with an understanding of the international legal system and basic knowledge of international law-related industries including government, business, non-profit, regulatory, legal, and international trade. The certificate requires 18 units. A minimum grade of C is required in each course taken.

Required Courses: (12 units)

	LAW 1	Business Law I (3)
	CO SCI 201	Introduction to Computer Information Systems (3)
OR	CIS 101	Introduction to Computers and Their Uses (3)
	INT BUS 1	International Trade (3)
	LAW 21	International Public Law (3)

Elective Courses: (6 units)

	ECON 11	Economics of Globalization (3)
OR	POL SCI 2	Modern World Governments (3)
AND	LAW 2	Business Law II (3.0)
OR	LAW 931	Cooperative Education – Law (3)

Total units: 18

Chemistry Department

New Program – Approved for 2019-20
Chemistry Technician Certificate of Achievement
Catalog Description:
The Chemistry Technician program prepares individuals to become chemistry technicians. The program is highly hands-on, promotes teamwork, and trains students with analytical, practical, and communication skills that parallel the industry environment, enabling them to think critically and solve on-the-job problems. Employment opportunities include positions with job titles such as chemical analyst, chemical technician, formulation technician, laboratory analyst, laboratory technician, laboratory tester, organic preparation analyst, quality control technician, research technician, and water quality technician.

Required Courses:

CHEM 100	Certified Quality Improvement Associate and the Industry (3)
CHEM 101	General Chemistry I (5)
CHEM 102	General Chemistry II (5)
CHEM 201	Quantitative and Instrumental Analysis (5)
CHEM 211	Organic Chemistry for Science Majors I (5)
CHEM 212	Organic Chemistry for Science Majors II (5)

Total units: 28

Engineering and Technologies Department

Correction to Transfer Status- p. 246
EET 123 Introduction to Arduino (2) **CSU**

New Programs – Approved for 2019-20

Geo-Spatial Engineering and Technologies Certificate of Achievement

Catalog Description:

The Geospatial Engineering and Technologies (GSET) program at ELAC is structured to produce qualified geospatial engineering technicians by offering relevant technical courses and business practices primarily in land surveying, but also in civil and geospatial engineering. What sets GSET's programs apart from other similar community college programs is its state of the art equipment and its student clubs (Geo-Huskies, Engineering Surveying Society, Civil and Environmental Engineering Student Organization) to perform practical and advanced forms of design and analysis for land surveying and civil engineering land development projects. GSET's student learning outcomes include field applications and practical and advanced math topics, and the usage of technology in land surveying and civil engineering practices. Prerequisite skills include a basic understanding of geometry and trigonometry, and a desire to be part of a community of practice of land surveyors and geospatial engineering technicians that enhances the profession. Professionals and technicians can be employed in a variety of settings, including private businesses and government agencies. Upon completing GSET's programs, students obtain careers as a professional land surveyor or technician, a cartographer or a photogrammetrist, or a civil engineering technician. The program offers three skills set certificates (5, 6, or 7 units), a certificate of achievement (16 units), and an associate of science degree (60 units). In addition, GSET provides a preparatory course for the National Council of Examiners for Engineering and Surveying (NCEES), Fundamentals of Surveying (FS) exam, which if passed successfully, leads to an increase in the likelihood of job placement with public, private and non-profit organizations. In addition, GSET also provides a cooperative education work experience course in land surveying, civil and geospatial engineering.

Required Courses:

ENG SUP 121	Land Surveying I (3)
ENG SUP 221	Land Surveying II (3)
ENG SUP 224	Land Surveyor-in-Training Review Course (2)
ENG SUP 225	Boundary Control (2)
ENG SUP 200	Business Practices for Land Surveyors & Civil Engineers (1)
ENG SUP 201	Geo-Spatial Technologies I (2)
ENG SUP 202	Geo-Spatial Technologies II (2)
ENG GEN 185	Directed Study – General Engineering (1)
	Total: 16 units

Geo-Spatial Engineering and Technologies Associate in Science Degree

Catalog Description:

The Geospatial Engineering and Technologies (GSET) program at ELAC is structured to produce qualified geospatial engineering technicians by offering relevant technical courses and business practices primarily in land surveying, but also in civil and geospatial engineering. What sets GSET's programs apart from other similar community college programs is its state of the art equipment and its student clubs (Geo-Huskies, Engineering Surveying Society, Civil and Environmental Engineering Student Organization) to perform practical and advanced forms of design and analysis for land surveying and civil engineering land development projects. GSET's student learning outcomes include field applications and practical and advanced math topics, and the usage of technology in land surveying and civil engineering practices. Prerequisite skills include a basic understanding of geometry and trigonometry, and a desire to be part of a community of practice of land surveyors and geospatial engineering technicians that enhances the profession. Professionals and technicians can be employed in a variety of settings, including private businesses and government agencies. Upon completing GSET's programs, students obtain careers as a professional land surveyor or technician, a cartographer or a photogrammetrist, or a civil engineering technician. The program offers three skills set certificates (5, 6, or 7 units), a certificate of achievement (16 units), and an associate of science degree (60 units). In addition, GSET provides a preparatory course for the National Council of Examiners for Engineering and Surveying (NCEES), Fundamentals of Surveying (FS) exam, which if passed successfully, leads to an increase in the likelihood of job placement with public, private and non-profit organizations. In addition, GSET also provides a cooperative education work experience course in land surveying, civil and geospatial engineering.

Major Core Requirements: (19 units)

	ENG SUP 121	Land Surveying I (3)
	ENG SUP 221	Land Surveying II (3)
	ENG SUP 224	Land Surveyor-in-Training Review Course (2)
	ENG SUP 225	Boundary Control (2)
	ENG SUP 200	Business Practices for Land Surveyors & Civil Engineers (1)
	ENG SUP 201	Geo-Spatial Technologies I (2)
	ENG SUP 202	Geo-Spatial Technologies II (2)
	ENG GEN 185	Directed Study – General Engineering (1)
	ENG GEN 212	Introduction to Engineering Design (3)

Restricted electives: (12 – 14 units)

List A: Complete 10 units from the following:

	EGD TEK 101	Engineering Graphics with Geometric Dimensioning and Tolerancing (3)
	EGD TEK 121	3-D Computer-Aided Design with SolidWorks (3)
OR	EGD TEK 122	3-D Computer-Aided Design with CATIA (3)
OR	EGD TEK 123	3-D Computer-Aided Design with PTC-CREO (3)
	MATH 241	Trigonometry with Vectors (4)
	CHEM 65	Introductory General Chemistry (4)
	PHYSICS 11	Introductory Physics (4)

List B: Complete 2 – 4 units from the following:

	GEOG 25	Introduction to Geographic Information Systems and Laboratory (4)
OR	GIS 25	Introduction to Geographic Information Systems and Laboratory (4)
	ARC 164	Design Software for Architecture (2)
	ENG GEN 101	Introduction to Science, Engineering and Technology (2.0)

Free Electives: 9 – 11 units

LACCD General Education Requirements: 21 units

Total units in degree: 60 units

Note: Three units of major courses may be double-counted in General Education

IT Technician Pathway: Stage 1 Computer Retail Sales and Support Certificate of Achievement

Catalog Description:

The *IT Technician Pathway: Stage I Computer Retail Sales and Support* Certificate of Achievement is the first stage of the statewide IT Technician pathway and prepares students to develop their fundamental IT Technician Skills. While completing coursework in customer service, communication, Microsoft Office, and information systems coursework, along with earning the CompTIA A+ industry certification, students gain practical experience as they learn how to succeed in an IT retail environment. Upon completion of this program, students would be qualified for entry level IT positions such as Retail Salespersons, Customer Service Representatives, Retail Sales Workers, and Sales Representatives.

Required Courses:

BUS 1	Introduction to Business	(3)
OR		
MARKET 31	Retail Merchandizing	(3)
CAOT 48	Customer Service	(3)
CAOT 32	Business Communications	(3)
OR		
IND TEK 103	Technical Writing and Communication (2)	
CAOT 82	Microcomputer Software Survey in the Office (3)	
ELECTRN 121	Cisco Essentials: Part 1 CompTIAs A+ Hardware Certification (3)	
ELECTRN 122	Cisco Essentials: Part 2 CompTIAs A+ Software Certification (3)	
ELECTRN 126	Installing, Configuring & Administering a Microsoft OS (3)	

CAOT 35 Concepts in Information Systems (3)
OR
CO SCI 201 Introduction to Computer Information Systems (3)
OR
CIS 101 Introduction to Computers and Their Uses (3)

Total: 23-24

Life Sciences

Associate in Science in Biology for Transfer
Correction to List A - p. 281
List A units: 23-25
Delete: In print catalog:
List A: Select one to two (3-6 units)

Theater Arts Department

New Program – Approved for 2019-20
Technical Theatre and Entertainment Technology Certificate of Achievement
Catalog Description:
The Certificate of Achievement in Technical Theatre and Entertainment Technology provides students with the foundational training and technical skills for entry-level positions in the following entertainment industry occupations: theatrical stagehand, lighting electrician, audio technician, programmer, rigger, set carpenter, scenic artist, art director, set dresser, property master, and production assistant. Our production process replicates a professional theatre environment in a contemporary facility that includes three performance venues equipped with state-of-the art technology. Students receive specialized classroom instruction which is reinforced with rigorous hands-on training in technical theatre practicums. Certificate students wishing to pursue careers in technical direction or theatrical design (scenery, lighting, sound) are encouraged to transfer to a four-year institution for additional training in their specific area of interest.

Required Courses: (13 units)

TECTHTR 300 Stagecraft (3)
TECTHTR 305 Orientation to Technical Careers in Entertainment (2)
TECTHTR 311 Introduction to Theatrical Lighting (3)
TECTHTR 315 Introduction to Design for Theatre (3)
TECTHTR 342 Technical Stage Production (2)

Elective Courses: Choose one of the following (2-4 units)

TECTHTR 340 Technical Theatre Practicum (4)
TECTHTR 343 Scenery Practicum (2)
TECTHTR 344 Props Practicum (2)
TECTHTR 346 Lighting Practicum (2)
TECTHTR 347 Sound Practicum (2)

Elective Courses: Choose one of the following (3 units)

TECTHTR 313 Scenic Art for Theatre (3)
TECTHTR 330 Sound Design for Theatre (3)
TECTHTR 370 Lighting Design for Theatre (3)
TECTHTR 380 Scenic Design for Theatre (3)

Total Required Units: 13
Total Elective Units: 5-7
Total Units: 18-20

Correction – Theatre in the Community – p. 347
Move from: Associate Degree Program list to **Certificate of Achievement** list

Non-Credit Department

New Course – Approved for 2019-20

VOC ED 368CE – Entrepreneur Start-up and Business Registration

Catalog Description:

This course provides students who want to start a small business as an entrepreneur with limited resources step by step guidance to create the business and register with the local, State, and Federal government agencies. Students are then able to be self-employed and/or prepare to pursue a business degree.

Graduation Requirements Section – p. 80-83

LACCD Board Rules and Administrative Regulations - Updates

Graduation Requirements (LACCD Board Rule 6200 - Chapter VI, Article II) – Amended August 7, 2019

Catalog Rights

For these purposes, a catalog year is defined as beginning with the fall semester through the subsequent summer. A student remaining in continuous attendance in the Los Angeles Community College District may elect to satisfy the degree, certificate or graduation requirements in effect at the college from which the student will either earn his/her degree, certificate or graduate:

1. at the time the student began such attendance at the college, or
2. at the time all graduation requirements are met, or
3. any intervening catalog term between the time the student began continuous attendance and the time all graduation requirements were met.

For the purposes of implementing this policy, the college may develop a policy to:

1. authorize or require substitutions for discontinued courses; or
2. require a student changing his/her major to complete the major requirements in effect at the time of the change.

A student who no longer maintains catalog rights may apply to be awarded a certificate or degree that was completed while s/he maintained catalog rights. In such a case, it shall be awarded retroactively in the last term of the period in which the student maintained those rights in which the certificate or degree requirements were completed.

The college's policy shall be developed in consultation with the college Academic Senate in accordance with the provisions of Chapter XVIII of the Board Rules – ACADEMIC SENATE AND THE BOARD OF TRUSTEES SHARED GOVERNANCE POLICY, and published in all college catalogs under appropriate headings.

This policy does not apply to college programs which are governed or regulated by outside government agencies or which require licensure or certification through one of these agencies.

Continuous Attendance

"Continuous attendance" means no more than one semester absence within a school year, excluding Summer Sessions and Winter Intersession.

Students granted a "military withdrawal" or a grade of "EW" under the provisions of Board Rule 6700, will be considered to be in "continuous attendance" for their required period of military service or excused withdrawal.

Residency Requirement

Students must complete no fewer than 12 units at the college conferring the degree.

Exceptions to residence requirements for the associate degree may be made by the governing board when it determines that an injustice or undue hardship would be placed on the student.

Curriculum Alignment section – p. 81 **delete**

Competency Requirements on p. 80-81 (LACCD Administrative Regulation E-79 Competency) - Update

I. The competency requirements for the Associate of Arts (AA) and Associate of Science (AS) Degrees are met by the following criteria:

a. Mathematics Competency

The competency requirement in mathematics for the Associate Degree may be met by completion of any of the following:

1) Verification of passing with a grade of C or P or higher any course from a California Community College Chancellor's Office (CCCCO) Course Basic (CB) Code of "One Level Below Transfer" or higher with a TOP code beginning with 17.

2) Verification of passing with a grade of C- or higher a mathematics course at or above the level of the course typically known as Intermediate Algebra or the equivalent from any United States regionally accredited secondary or post-secondary institution.

3) Verification of passing with a grade of C or P or higher a California Community College course that meets the California State University General Education Breadth (CSUGE Breadth) requirement in Area B4: Mathematics/Quantitative Reasoning and/or the Intersegmental General Education Transfer Curriculum (IGETC) in Area 2A: Mathematical Concepts and Quantitative Reasoning.

4) Achieving a satisfactory score (using a DAS-approved scoring-method) on a DAS-approved District Mathematics Competency Examination.

5) Achieving a satisfactory score on an external examination (such as, but not

limited to an Advanced Placement Exam) as specified in LACCD Administrative Regulations.

b. Written Expression Competency

The competency requirement in written expression for the Associate Degree may be met by completion of any of the following:

1) Verification of passing with a grade of C or P or higher Freshman Composition from any California Community College or the equivalent from any United States regionally accredited institution with a grade of C- or higher.

2) Verification of passing with a grade of C or P or higher a California Community College course that meets the California State University General Education Breadth (CSUGE Breadth) requirement in Area A2: Written Communication and/or the Intersegmental General Education Transfer Curriculum (IGETC) in Area 1A: English Composition.

3) Achieving a satisfactory score on an external examination (such as, but not limited to an Advanced Placement Exam) as specified in LACCD Administrative Regulations.

c. Students who maintain continuous catalog rights (as defined in Board Rule 6203) may satisfy competency according to the requirements stated in college catalogs pursuant to relevant Board Rules and Administrative Regulations from the first term under those rights until the term all graduation requirements have been met or any intervening term.

II. The District Curriculum Committee shall establish whether the course meets the competency requirement as established in this administrative regulation.

Correction- Skills Certificate Requirements (Local Policy) p. 82

1. Grade of "C" or **higher or "P" (pass)** in all courses required for certificate.

LACCD GE – Section regarding LACCD GE Area E (p.86) - Update

Area E: Health and Physical Education (3 semester units/4 quarter units' minimum)

E1: Health Education (one course minimum) The Health Education requirement may also be met by successful completion of all the major requirements for the Registered Nursing Program.

E2: Physical Education Activity (1 semester/1 quarter unit minimum)

Area E shall be waived for degrees in Nursing. For other "high-unit" degrees, the number of units in Area E (E1 and/or E2) specified below shall be waived:

Degree major/area of emphasis total units that cannot be double-counted to meet LACCD GE areas:	Units in LACCD Area E (E1 and/or E2) that shall be waived:
39.5	0.5
40.0	1.0
40.5	1.5
41.0	2.0

41.5	2.5
42.0 or greater	3.0

Note: At ELAC, Area E (E1 and E2) shall also be waived for the A.S. in Respiratory Therapy.

October 22, 2019