Major Code: 095300

The certificate of achievement in Drafting provides the student with the minimum information required for entry-level positions in the technical drafting field. It is also designed for persons seeking to enhance their advancement potential or for those who cannot pursue a full degree program or who already hold degrees in related fields. See the program learning outcomes listed under the associate's degree in this subject.

Major		34-36			
Additional Requirements 3		-	Additional Requirements (6-8 units)		
Total		37-39	ENGLISH 28	Intermediate Reading and	
				Composition (3)	
Major Component II (34-36 units)		or ENGLISH 100	Accelerated Prep: College Writing (3)		
DRAFT 4	Applied Descriptive Geometry (4)	or ENGLISH 101	College Reading and Composition I	
DRAFT 9	Mechanical Drafting (3)			(3)	
DRAFT 16	Blueprint Reading I (2)		ENG TEK 49	- Technical Mathematics II (5)	
DRAFT 17	Blueprint Reading II (2)		or MATH 123A	Elementary and Intermediate Algebra	
DRAFT 51	Tool Design (4)			I (4)	
or ENG GEN 912	Elementary Engineering Draftin	ig (3)	or MATH 123B	Elementary and Intermediate Algebra	
DRAFT 54	Simplified Stress Analysis (4)			II (4)	
DRAFT 55	Computer-Aided Drafting (3)		or a higher level m	ath course (3-5)	
DRAFT 56	Automated Manufacturing (3)		-		
DRAFT 81	Projects Laboratory (1)		Recommended for	students also pursuing an engineer	
DRAFT 82	CAD Drafting Laboratory (2)		major.		
PHYSICS 11	Introductory Physics (4)		Effective Fall 2017	7	
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Electronic Engineering Technology

Associate in Science Degree in Electronic Engineering Technology

Major Code: 093401

This course of study combines theory with manipulative skill training, vocabulary, use of test equipment, and the technical knowledge required for employment in the Electronics Industry. Skilled technologists may find employment with a wide variety of industrial and government contract firms dealing with aerospace, computers, aviation, automotive, quality control, circuit design, and research and development. Though this program is not specifically designed for transfer, Students wishing to transfer are advised to use either the CSU GE or IGETC plan instead, depending on their intended transfer institution.

Program Learning Outcomes: Upon successful completion of the program, students will able to articulate and justify technical problems through oral, written, and graphical communication; troubleshoot a variety of electronic and/or computer-based components and systems including signal processing, communications, computer networks, and controls; employ mathematics, science, and computing techniques in a systematic, comprehensive manner to support the study and solution of engineering problems; demonstrate industry-standards when interpreting and creating engineering drawings; and describe professional and ethical responsibilities in engineering.

Major28Additional LACCD GE Requirements21(Students wishing to transfer are advised to use either the CSU GE orIGETC plan instead.)Additional Degree-applicable Requirements11Total60		ELECTRN 6 ELECTRN 7 ELECTRN 16 ELECTRN 22 ELECTRN 054	Fundamentals of Electronics II (4) Fundamentals of Electronics II Lab (1) Selected Elements of Electronics Mathematics (5) Electronics Circuits II (4) Computer Logic and Arithmetic (4)
Major (32 units) CO TECH 35 ELECTRN 4 ELECTRN 5	Linux + (3) Fundamentals of Electronics (4) Fundamentals of Electronics I Lab (1)	ELECTRIN 034 ENG TEK 49 ENG TEK 81 Effective Fall 2017	Technical Mathematics II (5) Fabrication Techniques (1)

Updated program learning outcomes may appear on one or both of the following websites: http://www.lahc.edu/slo/program.html and/or https://effectiveness.lahc.edu/cpc/haps/SitePages/2015-18_SLO-SAO_Assessment.aspx. If so, those listed on the latter site supersede all others.

Certificate of Achievement in Electronic Technology

Major Code: 093400

The certificate of achievement in Electronic Technology provides the student with the minimum training required for entrylevel positions in the electronics field. See the program learning outcomes listed under the associate's degree in this subject.

Major (Core and Electives) Additional Requirements Total		29 8 37	ELECTRN 7	Fundamentals of Electronics II Lab (1)
Core (19 units)			ELECTRN 16	Selected Elements of Electronics Mathematics (5)
CO TECH 35	Introduction to Linux + (3)		ELECTRN 20	Electronics Circuits I (4)
ELECTRN 4	Fundamentals of Electronics (4)		ENG TEK 81	Fabrications Techniques (1)
ELECTRN 6	Fundamentals of Electronics II (4)			
			Additional Requirements (8 units)	
			ENGLISH 28	Intermediate Reading and
ELECTRN 22	Electronics Circuits II (4)			Composition (3)
ELECTRN 54	Computer Logic and Arithmetic (4)		or ENGLISH 100	Accelerated Prep: College Writing (3)
			or ENGLISH 101	College Reading and Composition I
Electives (choose <u>5</u> units minimum)			(3)	
DRAFT 1 ELECTRN 5	General Drafting (3) Fundamentals of Electronics I Lab (1)	Eng Tek 49	Technical Mathematics II (5)
			Effective Fall 2017	

Engineering

Associate in Science Degree in Engineering

Major Code: 090100

This program provides the student with the opportunity to experience a broad introduction into the field of engineering and aid in his or her selection of a specific area of specialization within the broad spectrum of engineering. This degree requires greater than 60 units and therefore may take more time to complete than other degrees.

Program Learning Outcomes: Upon successful completion of the program, students will able to articulate and justify technical problems through oral, written, and graphical communication; troubleshoot a variety of electronic and/or computer-based components and systems including signal processing, communications, computer networks, and controls; employ mathematics, science, and computing techniques in a systematic, comprehensive manner to support the study and solution of engineering problems; demonstrate industry-standards when interpreting and creating engineering drawings; and describe professional and ethical responsibilities in engineering.

Major Requirements 53*62 (Not including 6 double-countable major units and 3 Area E units that may be waived for this degree via graduation petition. Students wishing		DRAFT 16 DRAFT 51	Blueprint Reading I (2) Tooling Drafting (4)
to transfer are advised to use either the CSU GE or IGETC plan instead.) Additional LACCD GE Plan Requirements 9 Total 65*-74		or ENG GEN 112 DRAFT 55 or ENG GEN 111	Elementary Engineering Drafting (3) Computer-Aided Drafting (3) Engineering Drafting (3)
Major (53*-62 units) CHEM 65 Introductory General Chemistry (4)		ENG GEN 112 ENG GEN 243	Descriptive Geometry (3) Statics and Strength of Materials (4)
	Introductory General Chemistry (4) or high school chemistry (approved by petition)	ENG GEN 912 MATH 240	Elementary Engineering Drafting (3) Trigonometry (3)*
CHEM 101 CHEM 102 CO SCI 340 or CO SCI 344	General Chemistry (5) General Chemistry II (5) Programming in C++ (3) Programming in Java (3)	MATH 260 MATH 265 MATH 266 MATH 267 MATH 275	Precalculus (5)* Calculus with Analytic Geometry I (5) Calculus with Analytic Geometry II (5) Calculus with Analytic Geometry III (5) Ordinary Differential Equations (3)

Program listings do not include basic skills prerequisites for college-level courses or prerequisites for GE courses. Numbers appearing in parentheses beside each course title represent course units. Courses may not be offered every term. Students are strongly advised to see a counselor prior to enrolling in any program.