California State University Los Angeles

Department of Electrical and Computer Engineering

Example roadmap and pre-/ co-requisite structure
with mapping to articulated courses from East Los Angeles College

Bachelor of Science in Electrical Engineering 122 Units 2021-2022

Transferrable Courses from ELAC

- ENGR GEN 225 Digital Circuit Analysis EE 2440 (F S) 3
- ENGR GEN 225 Digital Circuit Analysis EE 2449 (F S) 1
- ENGR GEN 220 Ckt Analysis I EE 2040 (F S) 3
- HISTORY 11 or History 12 U.S. Constitution/ (F S X) 3
- MATH 261 Calculus I MATH 2110 (F S X) 4
- MATH 262 Calculus II MATH 2120 (F S X) 4
- MATH 263 Calculus III MATH 2130 (F S X) 3
- MATH 275 Ordinary Differential Eq. MATH 2150 (F S X) 3
- ENGR GEN 101 Intro to Sci. Engr. and Tech. ENGR 1500 (F S) 3
- PHYSICS 101 Physics I PHYS 2100 (F S X) 5
- PHYSICS 102 Physics II PHYS 2200 (F S X) 5
- Block C C1- Arts & Humanities (F S X) 3
- Block A A2 ENGL 1005B or 1010 (F S X) 3
- ENGL 2030 Intro to Technical Writing (F S X) 3
- Block D Social Sciences (F S X) 3
- ENGR GEN 220 Ckt Analysis I EE 2049 (F S) 1
- Block A A1 COMM 1100/ HNRS 1100 (F S) 3
- ENGR GEN 121 Programming for Engs: C++ EE 2450 (F S) 3
- HISTORY 11, or HISTORY 12 U.S. History (F S X) 3
- CHEM 101 Gen. Chem I Chem 1040 (F S) 4

Junior Year at CSULA 31

16 Units

- CE/EE/ME 3000 Econ for Engr (F S) 3
- EE 3020 Signals and Systems (F S) 3
- EE 3040 Probability, Random Var & Processes (F) 3
- EE 3450 Embedded Systems Programming II (F S) 3
- EE 3300 Electric Machines (F) 3
- EE 3001 Upper Div Req. Laboratory (F S) 1

15 Units

- ENGR 3010 Ethics & Professionalism (F S) 3
- EE 3030 Circuit Analysis II (S) 3
- EE 3200 Analog Comm. Systems (S) 3
- EE 3700 Electronics I (S) 3
- EE 3600 Control Systems I (S) 3

Senior Year at CSULA 28

15 Units

- EE 4xxx Upper Technical Elective 3
- EE 4961 Senior Design I (F) 3
- EE 3810 Sensors, Data Acq. & Instru. (F S) 3
- EE 4xxx Upper Technical Elective 3
- EE 4xxx Upper Technical Elective 3
- EE 3050 Electric & Magnetic Fields (F) 3

13 Units

- EE 4xxx Upper Technical Elective 3
- EE 4962 Senior Design II (S) 3
- EE 4xxx Upper Technical Elective 3
- EE 4xxx Upper Technical Elective 3
- EE Spec Lab Upper Div Specialization Laboratory 1

Course typically offered at CSULA

- F Offered in fall
- S Offered in spring
- X Offered in summer

→ Prerequisite
⇢ Co-requisite

Color Key:

General Education	Lower Division	Upper Division	Senior Design
21 Units	42 Units	37 Units	6 Units

Technical Elective

16 Units
(min. 3 lectures in specialization)

* MATH XXX, PHYSICS XXX ENGR GEN XXX

East Los Angeles College Articulated Courses