California State University Los Angeles
Department of Electrical and Computer Engineering

Example 4-year roadmap and pre-/co-requisite structure

Bachelor of Science in Electrical Engineering 122 Units 2022-2023

CAL STATE LA

Freshman Year **32**		Sophomore Year **34**		Junior Year **31**		Senior Year **25**	
16 Units	16 Units	17 Units	17 Units	16 Units	15 Units	13 Units	12 Units

EE 2440 Digital Engineering — **F S** 3

EE 2449 Digital Logic Lab — **F S** 1

EE 2040 Circuit Analysis I — **F S** 3

U.S. Constitution/ Local Govt — **F S X** 3

CE/EE/ME 3000 Econ for Engr — **F S** 3

Block C C1- Arts & Humanities — **F S X** 3

EE Spec Lab Upper Div Specialization Laboratory — 1

EE 4xxx Upper Technical Elective — 3

MATH 2110 Calculus I — **F S X** 4

MATH 2120 Calculus II — **F S X** 4

MATH 2130 Calculus 3 — **F S X** 3

MATH 2150 Differential Equations — **F S X** 3

EE 3810 Sensors, Data Acq. & Instru. — **F S** 3

EE 3030 Circuit Analysis II — **S** 3

EE 4961 Senior Design I — **F S** 3

EE 4962 Senior Design II — **F S** 3

ENGR 1500 Intro to Engr. and Tech. — **F S** 3

PHYS 2100 Physics I: Mechanics — **F S X** 5

PHYS 2200 Physics II Electro./circuits — **F S X** 5

EE 3020 Signals and Systems — **F S** 3

EE 3040 Probability, Random Var & Processes — **F** 3

EE 3200 Analog Comm. Systems — **S** 3

EE 4xxx Upper Technical Elective — 3

EE 4xxx Upper Technical Elective — 3

Block A A2 ENGL 1005B or 1010 — **F S X** 3

ENGL 2030 Intro to Technical Writing — **F S X** 3

EE 3450 Embedded Systems Programming II — 3

EE 2049 Electrical Measurements & Circuits Lab — **F S** 1

ENGR 3010 Ethics & Professionalism — **F S** 3

EE 3600 Control Systems I — **S** 3

EE 4xxx Upper Technical Elective — 3

EE 4xxx Upper Technical Elective — 3

Block A A1 COMM 1100/ HNRS 1100 — **F S** 3

EE 2450 Embedded System Programming I — **F S** 3

U.S. History 1 course from approved list — **F S X** 3

EE 3300 Electric Machines — 3

Block F Ethnicity (re) — **F S X** 3

EE 3700 Electronics I — **S** 3

EE 3050 Electric & Magnetic Fields — **F** 3

Chem 1040 General Chemistry — **F S X** 4

EE 3001 Upper Div Req. Laboratory — **F S** 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)