

ENGINEERING - ASSOCIATE IN SCIENCE

² Elective units from course(s) numbered 1-599, if needed, to reach 60 degree-applicable units.

Plan Code: 2520

This program provides a student with an introductory education to a range of concepts in various fields of engineering. A student will gain knowledge pertaining to Electrical, Mechanical, Civil, and Computer Engineering studies. This program may also facilitate transfer for a four-year engineering degree.

Program Student Learning Outcomes

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- To serve students for the fulfillment of their own personal goals.
- To serve students to meet career/transfer requirements.

Program Requirements

This degree requires the completion of General Education coursework plus the following:

Code Number	Course Title	Units
REQUIRED COURSES		
CHEM 1A	General Chemistry	5.5
ENGL 1	Reading and Composition	4-5
or ENGL 1H	Honors Reading and Composition	
or ENGL 1S	Reading and Composition with Support	
or ESL 1S	College Writing for Non-Native Speakers	
ENGR 3B	Advanced Engr Graphics & 3D CAD Drafting	3
ENGR 17	Electrical Engineering Circuits	3
ENGR 17L	Electrical Engineering Circuits Lab	1
ENGR 44	Materials Science and Engineering	3
ENGR 35	Statics	3
ENGR 50	Introduction to Engineering	1
ENGR 54	Computer Methods	3.5
MATH 80	Third Calculus Course	5
PHYS 3A	Physics for Sci. & Eng. - Mechanics	5.5
PHYS 3B	Physics for Sci. & Eng. - E & M	4.5
Required Subtotal		42-43
Complete one of the following: ¹		19-39
LBCC General Education (Plan A) (https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-a/)		
CSU GE Breadth (Plan B) (https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-b/)		
IGETC Pattern (Plan C) (https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-c/)		
Electives (as needed to reach 60 degree-applicable units) ²		
Minimum Degree Total		60

¹ Units for the major may be double-counted for LBCC GE, CSU GE, or IGETC; see counselor for limitations.