

Engineering Transfer Certificate: Electrical Track

MATH	Description	Units
MATH 103E	Calculus with Analytic Geometry	5
MATH 104E	Calculus with Analytic Geometry	5
MATH 105	Multivariable and Vector Calculus	5
MATH 108	Ordinary Differential Equations	5
PHYSICS		
PHY 101	Physics for Scientists and Engineers: A	5
PHY 102	Physics for Scientists and Engineers: B	5
CHEMISTRY		
CHEM 101	General Chemistry	5
ENGINEERING		
ENGR 100	Introduction to Engineering	3
ENGR 125	Programming Concepts and Methodologies for Engineers	4
ENGR 132	Introduction to Digital Electronics	4
ENGR 140	Materials Science and Engineering	3
ENGR 152	Engineering Mechanics-Statics	3
ENGR 240	Electrical Engineering Fundamentals	4
GENERAL EDUCATION		
ENGL 101	Introduction to College Reading and Composition	4
ENGLISH 102 or 104	Critical Thinking and Argumentation	3
SPCH 101	Public Speaking	3
POL S 101	Introduction to Government	3
HIST 117 or 118	United States History	3
Total Units		72

NOTES

1. Engineering students should consult multiple sources, such as academic counselors, engineering faculty, university advisors, and student peers to plan their transfer programs.
2. Recommended for preparation for transfer to CSU and complete BSCE in two years (60 Units).
3. Students transferring to a UC campus should also take MATH 107, PHYS 103, and CHEM 102
4. ENGR 140 and ENGR 152 may not be required at universities other than CSUN
5. This document is meant as a guide only. There are many successful pathways in engineering and students should use their best judgement while guiding their career.

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Glendale Community College Engineering

Electrical Engineering Suggested Study Plan Transfer Certificate in Electrical Engineering (72 Units)

Sample 6-Semester Plan

	Fall Semester			Spring Semester		
	Course	Description	Units	No	Description	Units
Year 1	MATH 103E	Calculus with Analytic Geometry I	5	ENGR 100	Introduction to Engineering	3
	ENGLISH 101	Introduction to College Reading and Composition	4	MATH 104E	Calculus with Analytic Geometry II	5
	CHEM 101	General Chemistry	5	PHY 101	Physics for Scientists and Engineers: A	5
	Total Units		14	Total Units		13
Year 2	ENGR 125	Programming Concepts and Methodologies for Engineers	4	POL S 101	Introduction to Government	3
	MATH 105	Multivariable and Vector Calculus	5	MATH 108	Differential Equations	5
	PHY 102	Physics for Scientists and Engineers: B	5	ENGR 140	Materials Science and Engineering	3
	Total Units		14	Total Units		11
Year 3	ENGR 152	Engineering Mechanics - Statics	3	ENGR 240	Electrical Engineering Fundamentals	4
	ENGL 104	Critical Thinking and Argumentation	3	SPCH 101	Public Speaking	3
	HIST	History of the United States	3			
	ENGR 132	Introduction to Digital Electronics	4			
	Total Units		13	Total Units		7
Total Units for Transfer		72				