



Glendale Community College Engineering

Engineering Transfer Certificate: Mechanical, Aerospace, Manufacturing Track

Glendale Community College to CSU

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 122	Engineering Graphics	3
ENGR 133	Introduction to Engineering Design	3
ENGR 140	Materials Science and Engineering	3
ENGR 141	Materials Science and Engineering Laboratory	1
ENGR 152	Engineering Mechanics – Statics	3
ENGR 156	Programming and Problem Solving in MATLAB	3
ENGR 230	Dynamics	4
ENGR 240	Electrical Engineering Fundamentals	4
ENGR 241	Strength of Materials	4
GENERAL EDUCATION		
ENGL 101	Introduction to College Reading and Composition	4
ENGL 102 or 104	Critical Thinking	3
SPCH 101	Public Speaking	3
POL S 101	Introduction to Government	3
HISTORY	United States History	3
Total Units		82

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 BSME in two years (60 Units).
3. Students transferring to a UC campus should also take MATH 107, PHYS 103, and CHEM 102
4. 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

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Mechanical Engineering Suggested Study Plan

Transfer Pathway in Mechanical, Aerospace, or Manufacturing Engineering
Glendale Community College to CSU (82 Units)

Sample 6-Semester Plan

	Fall Semester			Spring Semester		
	Course	Description	Units	No	Description	Units
Year 1	ENGR 100	Introduction to Engineering	3	ENGR 122	Engineering Graphics	3
	MATH 103E	Calculus with Analytic Geometry I	5	MATH 104E	Calculus with Analytic Geometry II	5
	CHEM 101	General Chemistry	5	PHY 101	Physics for Scientists and Engineers A	5
	ENGL 101	Introduction to College Reading and Composition	4	ENGL 102/104	Critical Thinking	3
	Total Units		17	Total Units		16
Year 2	ENGR 133	Intro to Engineering Design	3	ENGR 152	Engineering Mechanics - Statics	3
	MATH 105	Multivariable and Vector Calculus	5	ENGR 140	Materials Science and Engineering	3
	PHYSICS 102	Physics for Scientists and Engineers B	5	ENGR 156	Programming and Problem Solving in MATLAB	3
				ENGR 141	Materials Science and Engineering Lab	1
				HIST	American History	3
	Total Units		13	Total Units		13
Year 3	ENGR 241	Strength of Materials	4	ENGR 230	Dynamics	4
	MATH 108	Ordinary Differential Equations	5	POLS 101	Introduction to Government	3
	SPEECH 101	Speech	3	ENGR 240	Electrical Engineering Fundamentals	4
	Total Units		12	Total Units		11
Total Units for Transfer		82				