Glendale Community College Engineering

Engineering Transfer Certificate: Mechanical, Aerospace, Manufacturing Track

MATH	Description	Units
MATH 103	Calculus with Analytic Geometry	5
MATH 104	Calculus with Analytic Geometry	5
MATH 105	Calculus with Analytic Geometry	5
MATH 108	Ordinary Differential Equations	5
PHYSICS		
PHYSICS 101	Engineering Physics	5
PHYSICS 102	Engineering Physics	5
PHYSICS 103	Engineering Physics	5
CHEMISTRY		
CHEMISTRY 101	General Chemistry	5
ENGINEERING		
ENGR 100	Introduction to Engineering	3
ENGR 101	Engineering Drafting and Basic Design	3
ENGR 111	SolidWorks Applications	3
ENGR 140	Materials Science and Engineering	3
ENGR 152	Engineering Mechanics – Statics	3
ENGR 156	Programming and Problem Solving in MATLAB	3
ENGR 230	Dynamics[5]	3
ENGR 240	Electrical Engineering Fundamentals	4
ENGR 241	Strength of Materials[5]	3
GENERAL EDUCATION		
ENGLISH 101	Freshman English	3
ENGLISH 104	Critical Thinking and Argumentation[4]	3
SPCH 101	Public Speaking	3
POL S 101	Introduction to Government	3
HISTORY 117 or 118	United States History[6]	3
Total Units		**83**

NOTES

1. Engineering students should to consult multiple sources, such as academic counselors, engineering faculty, university advisors, and student peers, to plan their transfer programs.
2. Allows transfer to CSU and complete BSME in two years.
3. Students transferring to a UC campus should also take MATH 107 Linear Algebra and CHEM 102
4. ENGL 102, 102H, and 104H may be substituted
5. Articulates to CSULA
6. May substitute ECON 111, HIST 111, 116, 117, 118 or 151

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Glendale Community College Engineering

Mechanical Engineering Suggested Study Plan

Transfer Certificate in Mechanical, Aerospace, or Manufacturing Engineering

Sample 6-Semester Plan

	Fall Semester			Spring Semester		
	Course	**Description**	**Units**	**No**	**Description**	**Units**
				ENGL 104	Critical Thinking and Argumentation	3
Year 1	MATH 103	Calculus with Analytic Geometry I	5	ENGR 100	Introduction to Engineering	3
	ENGLISH 101	Freshman English	3	MATH 104	Calculus with Analytic Geometry II	5
	CHEM 101	General Chemistry	5	ENGR 156	Programming and Problem Solving in MATLAB	3
	Total Units		**13**	**Total Units**		**14**
Year 2	ENGR 101 or ENGR 122	Engineering Drafting and Basic Design or Engineering Graphics	3	ENGR 152	Engineering Mechanics - Statics	3
	MATH 105	Calculus with Analytic Geometry III	5	MATH 108	Differential Equations	5
	PHYSICS 101	Engineering Physics	5	PHYSICS 102	Engineering Physics	5
				POL S 101	Introduction to Government	3
	Total Units		**13**	**Total Units**		**16**
Year 3	ENGR 241	Strength of Materials	3	ENGR 230	Dynamics	3
	PHY 103	Engineering Physics	5	ENGR 140	Materials Science and Engineering	3
	HIST 117 or 118	History of the United States	3	SPCH 101	Public Speaking	3
	ENGR 111	SolidWorks Applications	3	ENGR 240	Electrical Engineering Fundamentals	4
	Total Units		**14**	**Total Units**		**13**
Total Units for Transfer		**83**				