Glendale Community College Engineering

Engineering Transfer Certificate: Civil Track

MATH[3]	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
NATURAL SCIENCE (Chose one class)		
BIOL 102	General Biology	5
or GEOL 101	Physical Geology	3
and GEOL 111	Physical Geology Lab	1
or GEOL 102	Environmental Geology	3
and GEOL 112	Environmental Geology Lab	1
ENGINEERING		
ENGR 100	Introduction to Engineering	3
ENGR 101	Engineering Drafting and Basic Design	3
ENGR 109	Basic AutoCAD 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	3
ENGR 241	Strength of Materials	3
ENGR 240	Electrical Engineering Fundamentals	4
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	History of the United States[5]	3
Total Units		**87 - 88**

NOTES

1. Students are strongly advised to discuss their academic plan with a GCC academic counselor.
2. Allows transfer to CSU and finish BSCE in 2 years.
3. Students transferring to a UC campus should take MATH 107 Linear Algebra and CHEM 102
4. Students may take the following optional courses: ENGL 102, ENGL 102H.
5. May choose from: ECON 111, HIST 111, 116, 117, 118, or 151

Contact: Christopher Herwerth
cherwerth@glendale.edu 818-240-1000 ext. 5628

Glendale Community College Engineering

Civil Engineering Suggested Study Plan

Transfer Certificate in Civil Engineering

87 -88 Units

	Fall Semester			Spring Semester		
	Course	**Description**	**Units**	**No**	**Description**	**Units**
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	PHYSICS 101	Engineering Physics	5
	Total Units		**13**	**Total Units**		**13**
Year 2	ENGR 101	Engineering Drafting and Basic Design	3	ENGR 152	Engineering Mechanics - Statics	3
	MATH 105	Calculus with Analytic Geometry III	5	MATH 108	Differential Equations	5
	PHYSICS 102	Engineering Physics	5	PHYSICS 103	Engineering Physics	5
	ENGLISH 104	Critical Thinking and Argumentation	3	POL S 101	Introduction to Government	3
	Total Units		**16**	**Total Units**		**16**
Year 3	ENGR 241	Strength of Materials	3	ENGR 230	Dynamics	3
	ENGR 140	Materials Science and Engineering	3	ENGR 156	Programming and Problem Solving in MATLAB	3
	HIST 117 or 118	History of the United States	3	SPCH 101	Public Speaking	3
	ENGR 109	Basic AutoCAD Applications	3	ENGR 240	Electrical Engineering Fundamentals	4
	BIOL 102 or GEOL 101 and GEOL 111	General Biology or Physical Geology & Physical Geology Lab	5			
	Total Units		**17**			**12 or 13**
Total Units for Transfer		**87**				