

Sample Plan of Study

Sample Plan of Study Civil Engineering (CVL) Freshmen Year

Semester 1			Semester 2				
Course	Title	Cr.	Pre/ConP	Course	Title	Cr.	Pre/ConP
MA 165	Analytic Geometry and Calculus I (Math)	4	Pre: MAT 110 or MA 158 or passing ENG Math Placement Test	MA 166	Analytic Geometry and Calculus II (Math)	4	Pre: MA 165
CHM 115	General Chemistry I (Science)	4	ConP: MA 165	ENGL 106	First-Year Composition (English Lan. & Com.)	4	ENGL 100
ENGL 100	English for Academic Studies (English Lan. & Com.)	3		ENGR 132	Transforming Ideas to Innovation II (General Eng.)	2	Pre: ENGR 131
ENGR 131	Transforming Ideas to Innovation I (General Eng.)	2		SS	Science Selective* (Science; for example: CHM 112)	3	
GEE 1	General Education Elective (refer to course catalogue)	3		PHYS 172	Modern Mechanics (Science)	4	ConP: MA 165
Semester Credits = 16				Semester Credits = 17			

Sophomore Year

Semester 3			Semester 4				
Course	Title	Cr.	Pre/ConP	Course	Title	Cr.	Pre/ConP
MA 261	Multivariate Calculus	4	Pre: MA 166	MA 265	Linear Algebra	3	Pre: MA 166
PHYS 241	Electricity and Optics	3	Pre: PHYS 172	CVL 231	Engineering Materials I	3	CVL 297 or CVL 250 or ME 271 or ME 270 or ME 250 CVL 271 (all with Min. Grade of C-)
CVL 297	Basic Mechanics I	3	Pre: PHYS 172, ConP: MA 261 (min grade C-)	CVL 270	Introductory Structural Mechanics	4	CVL297 or ME 270 or ME 271 or ME 250 or CVL 250 or CE 271 (all with Min. Grade of C-)
CVL 203	Principles and Practices of Geomatics	4	ConP: CGT 164 (min grade C-)	CVL 298	Basic Mechanics II	3	ConP: CVL 231 with Minimum Grade of C- Pre: CVL 297 (min grade C-) or CVL 270 (min grade C-)
CGT 164	Graphics for Civil Engineering and Construction	2		COM 114	Speech Communication	3	Pre: ENGL 100
CVL 292	Contemporary Issues in Civil Engineering	2	More than 14 Cr				
Semester Credits = 18				Semester Credits = 16			

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Junior Year

Semester 5				Semester 6			
Course	Title	Cr.	Pre/ConP	Course	Title	Cr.	Pre/ConP
MA 266	Ordinary Differential Equations	3	Pre: MA 261 (min grade C-)	STAT 511	Statistical Methods	3	Pre: MA 166 with min. grade C-
CVL 331	Engineering Materials II	3	Pre: CVL 231 (min grade C-)	CVL 398	Introduction to Civil Engineering System Design	3	Pre: MA 261 (min grade C-)
CVL 340	Hydraulics	3	Pre: CVL 298 (min grade C-) CVL 298 or ME 251 or AAE 203 or CVL 251 or ME 274 or ME 275 or CVL 275 (all with min. grade C-)	CVL 392	Technical Communication in CVL	2	Pre: CVL 292 (min grade C-)
CVL 343	Elementary Hydraulics Lab	1	ConP: CVL 340 (min grade C-)	CVL 473	Theory of Reinforced Concrete	4	Pre: CVL 371
CVL 371	Structural Analysis	3	Pre: CVL 270 (min grade C-)	CVL 383	Geotechnical Engineering I	3	ConP: CVL 340 (min grade C-)
GEE2	General Education Elective (refer to course catalogue)	3		Bas. Sci.	Basic Science Selective	3	
Semester Credits = 16				Semester Credits = 18			

Senior Year

Semester 7				Semester 8			
Course	Title	Cr.	Pre/ConP	Course	Title	Cr.	Pre/ConP
ME 200	Thermodynamics	3	ConP: MA 261 (min grade C-) ENGR 132, Pre: CHM 115	CVL 498	Civil Engineering Design Project	3	Last semester only if last is one is summer preceding spring
CVL 353	Physico-chemical principles of Environmental Engineering	4		CVL 470	Structural Design in Metals	3	Pre: CVL 371
CVL 522	Computer Applications Construction	4	Senior	CVL361	Transportation Engineering	3	Junior
CVL 483	Geotechnical Engineering II	3	Pre: CVL 383	CVL 222	Life Cycle Engineering & Management of Construction Facilities	3	Sophomore
GEE 3	General Education Elective	3		GEE 4	General Education Elective	3	
				GEE 5	General Education Elective	3	
Semester Credits = 17				Semester Credits = 18			

Total Minimum Credits Required for Graduation = 136

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