



# Civil Engineering at University of Canterbury

Approved 20 June 2018 by Prof. Stammer

Semester 1	Course	Cr Hrs
CHEM 1601, 1601L	General Chemistry	4
ES 1401, 1402, 1403	Intro to Engineering	3
MATH 1300	Acc Single-Var Calculus I	4
	LAC	3
	Vanderbilt Visions	0
	total hours	14

Semester 3	Course	Cr Hrs
CE 2101	Civil & Environmental Eng. Info. Systems	3
CE 2120	Sustainable Design in Civil Eng.	3
CE 2200	Statics	3
MATH 2300	Multivariable Calculus	3
PHYS 1602, 1602L	General Physics II & Lab	4
	total hours	16

Semester 5	at the University of Canterbury	Cr Hrs
CE 3200 (VU distance)	Structural Analysis	3
ENCN 242 (2 hrs CE 3700; 2 hrs CE 2052)	Fluid Mechanics & Hydrology	4
	CE Program Elective	3
	Open Elective	3
	LAC	3
	total hours	16

Semester 7	Course	Cr Hrs
CE 3700*	Fluid Mechanics	1
CE 3700L**	Fluid Mechanics Lab	1
CE 4400	Construction Project Mgmt	3
CE 4950	Civil Eng. Design I	1
CE 4959**	Sr. Engineering Design Seminar	1
MSE 2205	Strength & Structure of Materials	1
	CE Design Elective	3
	CE Program Elective	3
	total hours	14

Semester 2	Course	Cr Hrs
CS 1101 (or CS 1103)	Prog & Prob Solving	3
MATH 1301	Acc Single-Var Calculus II	4
PHYS 1601, 1601L	General Physics I	4
MSE 1500, 1500L	Materials Science I	4
	total hours	15

Semester 4	Course	Cr Hrs
CE 2205	Mechanics of Materials	3
CE 3501	Transportation Systems Engineering	3
ME 2190	Dynamics	3
ME 2220 or ChBE 2200	Thermodynamics	3
MATH 2420	Methods of Ordinary Differential Equations	3
	LAC	3
	total hours	18

Semester 6	Course	Cr Hrs
CE 3100W	Civil & Environmental Eng. Lab.	2
CE 3205	Structural Design	3
CE 3300	Risk, Reliability, & Resilience Eng.	3
CE 3705	Water Resources Eng.	3
ENGM 2160	Engineering Economy	3
	LAC	3
	total hours	17

Semester 8	Course	Cr Hrs
CE 4951	Civil Eng. Design II	2
	CE Design Elective	3
	Technical Elective***	1
	Open Elective***	3
	LAC	3
	LAC Elective	3
	total hours	15

**total hours = 125**

\*Special registration of one credit hour of CE 3700 Fluid Mechanics to complement content abroad.

\*\*CEE Faculty will work with you to facilitate simultaneous enrollment in these courses.

\*\*\*A 3 credit hour technical elective is recommended; extra technical elective hours count as open elective hours.

***This curriculum plan is a guide but NOT authoritative. The Undergraduate Catalog is the authoritative document regarding degree requirements. Students considering studying abroad should consult the catalog and discuss their plans with their academic advisers.***