VANDERBILT
SCHOOL OF ENGINEERING

Civil Engineering at University College Cork

Approved 20 June 2018 by Prof. Robert 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 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 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 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 5	at the University College Cork	Cr Hrs
CE 3200 (VU distance)	*Structural Analysis*	*3*
CE 2003 (3 hrs CE 3700)	Fluids I	3
	CE Program Elective	3
	Open Elective	3
	LAC	3
	total hours	15

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 7	Course	Cr Hrs
CE 4400	Construction Project Mgmt	3
CE 4950	Civil Eng. Design I	1
CE 4959*	Sr. Engineering Design Seminar	1
CE 3700L*	Fluid Mechanics Lab	1
MSE 2205	Strength & Structure of Materials	1
	CE Design Elective	3
	CE Program Elective	3
	LAC Elective	3
	total hours	16

Semester 8	Course	Cr Hrs
CE 4951	Civil Eng. Design II	2
	CE Design Elective	3
	Technical Elective	3
	Open Elective	3
	LAC	3
	total hours	14

total hours = **125**

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

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.