



Approved 19 Aug 2016 by Prof. Paul Laibinis

Semester 1	Course	Hrs
CHEM 1601, 1601L (102A, 104A)	General Chemistry & Lab	4
ES 1401, 1402, 1403 (140A,B,C)	Intro to Engineering	3
MATH 1300 (155A)	Acc Single-Var Calculus I	4
	LAC	3
	Vanderbilt Visions	0
	total hours	14

Semester 2	Course	Hrs
CHEM 1601, 1601L (102A, 104A)	General Chemistry & Lab	4
CS 1103 (103)	Intro Prog for Eng & Sci	3
MATH 1301 (155B)	Accel Single-Var Calc II	4
PHYS 1601, 1601L (116A, 118A)	General Physics I & Lab	4
	total hours	15

Semester 3	Course	Hrs
CHBE 2100 (161)	Chem Process Principles	3
CHEM 2221, 2221L (220A, 219A)	Organic Chemistry & Lab	4
MATH 2300 (175)	Multivariable Calculus	3
PHYS 1602, 1602L (116B, 118B)	General Physics II & Lab	4
	LAC	3
	total hours	17

Semester 4	Course	Hrs
CHBE 2200 (162)	ChE Thermodynamics	3
CHEM 2222, 2222L (220B, 219B)	Organic Chemistry & Lab	4
CHBE 2250 (180)	Modeling & Sim In ChE	3
MATH 2420 (198)	Methods of Ord Diff Eqs	3
	LAC	3
	total hours	16

Semester 5 at NUS	Course	Hrs
CM2101 (CHEM 3300 3 hrs, CHEM 2050 1 hr)	Physical Chemistry	4
CN 2122 (CHBE 3300/230)	Fluid Mechanics*	3
CN 2125 (CHBE 3350/231)	Heat & Mass Transfer**	3
CN3132	Separation Processes***	0
	Open Elective	3
	total hours	13

Semester 6	Course	Hrs
CHBE 3250 (225)	Chem Reaction Engr	3
CHBE 3600 (242)	Chemical Process Control	3
CHBE 3900W (228W)	Chem Engineering Lab I	4
	Technical elective	3
	LAC	3
	total hours	16

Semester 7	Course	Hrs
CHBE 2150 (220)	Molecular & Cell Bio for Eng	3
CHBE 3200 (223)	Phase Equil & Staged Sep	3
CHBE 4900W (229W)	Chem Engineering Lab II	3
CHBE 4950W (233W)	CHE Process & Product Design	4
CHBE 4959 (297)	Sr Engr Design Seminar	1
	LAC	3
	total hours	17

Semester 8	Course	Hrs
CHBE 4951W (234W)	Chem Engr Design Proj	3
CHBE nnnn	Program elective	3
CHBE nnnn	Program elective	3
	Technical elective	3
	LAC	3
	Open elective	3
	total hours	18

total hours = 126

*To receive credit for ChBE 3300 and 3350, both CN 2122 and CN 2125 must be taken at NUS.

**Students need and NUS has typically granted permission to take CN2125 simultaneously with its prerequisite, CN 2122.

***Students must audit this course at NUS in preparation for further courses at VU.

This curriculum plan is a guide that follows the chemical engineering degree requirements as of summer 2016. It is 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.