

A Typical Curriculum with prerequisites

Year	Level	Code & #	Title	Prerequisites	Cr. hr.
First (PY)	1	MATH 140	Introduction to mathematics		2
		ENGL 140	English (1)		8
		CI 140	Learning & thinking & research		3
		CHS 150	Health & fitness (2)		1
	2	ENT 101	Entrepreneurship		1
		CT 140	IT skills		3
		MC 140	Communication skills		2
		MATH 150	Differential Calculus		3
		ENGL 150	English (2)		8
	Second	3	CHEM 101	General Chemistry (1)	
PHYS 103			General Physics (1)		4
MATH 106			Integral Calculus	MATH 150	3
MATH 107			Vectors & Matrices	MATH 150	3
ENGL 107			Technical Writing		3
4		IC 107	Ethics of the Profession		2
		ARAB 101	Language Skills		2
		PHYS 104	General Physics (2)		4
		GE 104	Basics of Engineering Drawing		3
		ENGL 108	Communications Skills for Engineers		3
MATH 203	Differential and Integral Calculus	MATH 106; MATH 107	3		

Year	Level	Code & #	Title	Prerequisites	Cr. hr.
Third	5	IC 1xx	Optional IC course		2
		GE 105	Introduction to Engineering Design	GE 104	2
		GE 201	Statics	MATH 106 MATH 107	3
		CHE 201	Chemical Engineering Principles -1	CHEM 101	3
		MATH 204	Differential Equations	MATH 203	3
		CHEM 244	Principles of Organic Chemistry (1)		2
	6	IC 1xx	Optional IC course		2
		ARAB 103	Expository Writing		2
		CHE 202	Chemical Engineering Principles -2	CHE 201 CHEM 230*	2
		GE 209	Computer Programming		3
		CHEM 230	Principles of Physical Chemistry	CHEM 101	3
		CHEM 245	Principles of Organic Chemistry (2)	CHEM 244	2
		STAT 324	Engineering Probability and Statistics		3
	Fourth	7	IC 1xx	Optional IC course	
CHE 205			Chemical Engineering Thermodynamics (1)	CHE 201 CHEM 230	2
MATH 254			Numerical Methods	GE 209 MATH 107	3
GE 302			Industry and Environment	PHYS 104 CHEM 101 MATH 107	2
CHE 315			Momentum Transport Operations	CHE 202	3
CHEM 350			Instrumental Analysis for non-major	CHE 201	4
8		CHE 206	Chemical Engineering Thermodynamics (2)	CHE 205	2
		CHE 310	Unit Operations	CHE 201	3
		CHE 317	Energy Transport Operations	CHE 202	3
		CHE 318	Mass Transport operations	CHE 315	4
CHE 319	Principles of Materials Engineering	CHEM 101	3		
CHE 406	Computational Techniques	MATH 204	2		

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Fifth	9	CHE 320	Chemical Reaction Engineering	<i>CHE 206</i>	3
		GE 403	Engineering Economy		2
		GE 404	Engineering Management		2
		CHE 407	Separation Processes	<i>CHE 318</i>	4
		CHE 422	Selected topics in CHE (1)	<i>CHE 318</i>	3
		CHE 496	Graduation Project -1	<i>Complete 128 credits and levels 1-7 courses</i>	2
	10	CHE 412	Computer Aided Chemical Process Design	<i>CHE 318</i>	3
		CHE 414	Process Control	<i>CHE 406</i>	3
		CHE 418	Process economics and safety	<i>GE 403</i>	3
		CHE 4xx	Selected Elective (1)		3
		CHE 4xx	Selected Elective (2)		3
		CHE 497	Graduation Project -2	<i>CHE 496</i>	2
		CHE 499	Practical Training		1 NP*
Total					164