## General CHEG Curriculum

FRESHMAN \	/EAR			
First Semester		Credits	Second Semester	Credits
CHEM 1127Q General Chemistry		4	CHEM 1128Q General Chemistry	4
MATH 1131Q Calculus I ENGR 1000 Orientation to Engineering		4	MATH 1132Q Calculus II	4
		1	ENGR 1166 Foundations of Engineering	3
CSE 1010C	Intro to Computing	3	Arts & Humanities (Content Area 1)1	3
ENGL 1010 or	1011 Academic Writing	4	Social Sciences (Content Area 2) 1	3 3 3
		16		17
SOPHOMORE	YEAR			
First Semester		Credits	Second Semester	Credits
PHYS 1501Q	Eng Physics I	4	PHYS 1502Q Eng Physics II	4
CHEM 2443	Organic Chemistry	3	CHEM 2446 Organic Chemistry Lab	4
	Multivariable Calculus	4	CHEM 2444 Organic Chemistry	
CHEG 2103	Intro to Chem Engineering	3	MATH 2410Q Diff Equations	3
PHIL 1104	Ethics (Content Area 1)1	3	CHEG 2111 Thermodynamics I	3
			Diversity and Multiculture (Content Area 4)1	3
		17		17
JUNIOR YEAR				
First Sem		Credits	Second Semester	Credits
	Thermodynamics II	3	CHEG 3124 Heat & Mass Transfer	3
	Fluid Mechanics	3	CHEG 3151 Process Kinetics	3
	Chemical Engineering Analysi		CHEG 3128 Junior Chem Engineering Lab	3 3
	(Content Area 2) 1	3	Engineering Requirement 3	3
MCB/Biology/CHEM Requirement <sup>2</sup>		4	Diversity and Multiculture (Content Area 4)1	3
			Free Elective	3
		16		17
SENIOR YEAR	Registration of the second	0.20001-003-00		
First Semester		Credits	Second Semester	Credits
CHEG 4139 Chem Engineering Lab		2	CHEG 4139 Chem Engineering Lab	2
OR Free Elective		or 3	OR Free Elective	or 3
	apstone Design 1	3	CHEG 4147 Process Dynamics & Control	3
CHEG 4142 Unit Ops & Process Simulation Lab 3			CHEG 4143W Capstone Design 2	3
Engineering Requirement <sup>3</sup> 3			CHEG Requirement 3	3 3
CHEG Require	ement <sup>3</sup>	3	Professional Requirement 3	3

14 (with lab) or 15 (with elective)

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Total 129 credits

<sup>&</sup>lt;sup>1</sup> University General Education Requirements: Courses selected for Content Areas 1 & 2 must be in four different departments. One course in Content Area 4 must be an international course. One course in Content Area 4 may also satisfy a Content Area 1 or 2 requirement.

<sup>&</sup>lt;sup>2</sup> MCB/Biology/CHEM requirement may be satisfied by the following courses: Principles of Biology (BIOL 1107/1108 – 4 credits), Introduction to Biochemistry (MCB 2000 – 4 credits), Biochemistry (MCB 3010 – 5 credits) or Fundamentals of Microbiology (MCB 2610 – 4 credits), Physical Chemistry (CHEM 3563 - 4 credits), Analytical Chemistry (CHEM 3332 - 4 credits), Physical Chemistry 2 (CHEM 3564 - 4 credits) or others by petition.

<sup>&</sup>lt;sup>3</sup> CHEG Requirements are satisfied by any 2000 level chemical engineering course; Engineering Requirements are satisfied by any 2000 level engineering course; Professional Requirements are satisfied by any 2000 level engineering, science or math courses.