CHEMICAL ENGINEERING 2016-17

		Units	Units			
PREPARATION	FOR THE MAJOR	74	UNIVERSITY REQUIREMENTS			
CH E 5			American History and Institutions – (one 4-unit course, may be			
CH E 10			counted as G.E. if selected from approved list)			
CHEM 1A, 1B, 1C	or 2A, 2B, 2C	9				
	1CL or 2AC, 2BC, 2CC					
			UC Entry Level Requirement: English Composition			
	I, 109B or BH		Must be fulfilled within three quarters of matriculation			
			Musi be jugited within three quarters of matriculation			
	B, 6A-B or 4AI-4BI, 6A		Satisfied by:			
11115 1, 2, 3, 3L .			GENERAL EDUCATION			
UPPER DIVISIO	ON MAJOR	81	1			
			General Subject Areas			
CH E 110A-B		6	Area A: English Reading & Comprehension – (2 courses required)			
CH E 119						
			A-1:A-2:			
			Areas D & E: Social Sciences, Culture and Thought			
			(2 courses minimum)			
			Areas F & G: The Arts, Literature			
			(2 courses minimum)			
	ATRL 100B *^					
*^ see note on next pag			2 additional courses from Areas D, E, F, G, or H			
	requirement					
	e student's technical electi	ves must be obtained	Special Subject Areas			
from the undergradua	ite adviser.		Donth			
At least 9 of the 15 un	iits must be in the followin	g departments in the	Depth:			
	ıg: CH E, ECE, MATRL, M					
Approved Technica	l Elective Requirement	classes:	Ethnicity (1 course):			
CH E 102	CHEM 142A,B,C	MCDB 111				
CH E 121	CHEM 145	MCDB 126A,B,C	European Traditions (1 course):			
CH E 124	CHEM 147	MCDB 133				
CH E 125	CHEM 150	MCDB 138	Writing (4 courses required):			
CH E 126	ECE 130A,B,C	ME 110				
CH E 141	ECE 183	ME 112				
CH E 152B	ENGR 101	ME 128				
CH E 160	ENGR 103	ME 134				
CH E 160	ENV S 105	ME 169	NON-MAJOR ELECTIVES 32			
CH E 171 CH E 196 ¹	MATH 122A,B MATRL 100A,C	ME 185 PHYS 123A,B	General Education and Free Electives taken:			
CH E 198 ¹	MATRL 100A,C	PHYS 127AL	General Education and Fice Electives taken.			
CHEM 115A,B,C	MATRL 160	PHYS 127BL				
CHEM 113A,B,C	MATRL 185	11110 14/DD				
CHEM 126	MCDB 101A,B					
	,					
¹ Three units maximum from GPA of 3.0 or higher.	n CH E 196 and CH E 198 combi	ned; only for students with				
Technical elective	s taken					
			TOTAL UNITS REQUIRED FOR GRADUATION 187			

Courses required for the major, inside or outside of the Department of Chemical Engineering, cannot be taken for the passed/not passed grading option. They must be taken for **letter** grades.

CHEMICAL ENGINEERING 2016-17

FRESHMAN YEAR

FALL	units	WINTER	units	SPRING	units
CH E 5	3	CHEM 1B or 2B	3	CHEM 1C or 2C	3
CHEM 1A or 2A	3	CHEM 1BL or 2BC	2	CHEM 1CL or 2CC	2
CHEM 1AL or 2AC	2	MATH 3B	4	ENGR 3	3
MATH 3A	4	PHYS 1	4	MATH 4A or 4 AI	4
WRIT 1E or 2E	4	WRIT 2E or 50E	4	PHYS 2	4
TOTAL	16		17		16

SOPHOMORE YEAR

FALL	units	WINTER	units	SPRING	units
CH E 10	3	CH E 107	3	CH E 110B	3
CHEM 109A or 109AH	4	CH E 110A	3	CH E 132A	4
MATH 4B or 4BI	4	CHEM 6AL	3	CHEM 6BL	3
PHYS 3	3	CHEM 109B or 109BH	4	MATH 6B	4
PHYS 3L	1	MATH 6A or 6AI	4	G.E. Elective	4
TOTAL	15		17		18

JUNIOR YEAR

FALL	units	WINTER	units	SPRING	units
CH E 120A	4	CH E 120B	3	CH E 119	1
CH E 128	3	CH E 132C	3	CH E 120C	3
CH E 132B	3	CHEM 113B	4	CH E 140A	3
G.E. Elective	4	MATRL 101 or MATRL 10	00B* 3	CH E 180A	3
		Technical Elective	3	CHEM 113C	4
				Technical Elective	3
TOTAL	14		16		17

SENIOR YEAR

FALL	units	WINTER	units	SPRING	units
CH E 140B	3	CH E 180B	3	CH E 184B	3
CH E 152A	4	CH E 184A	3	G.E. Elective	8
G.E. Elective	4	G.E. Elective	4	Technical Elective	3
Technical Elective	3	Technical Elective	3		
TOTAL	14		13		14

^{*} If applying to the BS/MS Materials program student must take:

Sophmore year- Phys 4 in Winter or Spring

Junior year- MATRL 100A in Fall, MATRL 100B in winter, MATRL 100C in Spring

[^]Students may only count one course toward the major. (MATRL 101 OR MATRL 100B)