

# CHEMICAL ENGINEERING 2016-17

	Units
<b>PREPARATION FOR THE MAJOR</b>	<b>74</b>
CH E 5 .....	3
CH E 10 .....	3
CHEM 1A, 1B, 1C or 2A, 2B, 2C .....	9
CHEM 1AL, 1BL, 1CL or 2AC, 2BC, 2CC .....	6
CHEM 6AL-BL .....	6
CHEM 109A or AH, 109B or BH .....	8
ENGR 3 .....	3
MATH 3A-B, 4A-B, 6A-B or 4AI-4BI, 6AI .....	24
PHYS 1, 2, 3, 3L .....	12

	Units
<b>UPPER DIVISION MAJOR</b>	<b>81</b>
CH E 107 .....	3
CH E 110A-B .....	6
CH E 119 .....	1
CH E 120A-B-C .....	10
CH E 128 .....	3
CH E 132A-B-C .....	10
CH E 140A-B .....	6
CH E 152A .....	4
CH E 180A-B .....	6
CH E 184A-B .....	6
CHEM 113B-C .....	8
MATRL 101 or MATRL 100B *^ .....	3

\*^ see note on next page

Technical Elective requirement ..... 15

*Prior approval of the student's technical electives must be obtained from the undergraduate adviser.*

*At least 9 of the 15 units must be in the following departments in the College of Engineering: CH E, ECE, MATRL, ME*

**Approved Technical Elective Requirement classes:**

CH E 102	CHEM 142A,B,C	MCDB 111
CH E 121	CHEM 145	MCDB 126A,B,C
CH E 124	CHEM 147	MCDB 133
CH E 125	CHEM 150	MCDB 138
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 154	ENGR 103	ME 134
CH E 160	ENV S 105	ME 169
CH E 171	MATH 122A,B	ME 185
CH E 196 <sup>1</sup>	MATRL 100A,C	PHYS 123A,B
CH E 198 <sup>1</sup>	MATRL 135	PHYS 127AL
CHEM 115A,B,C	MATRL 160	PHYS 127BL
CHEM 123	MATRL 185	
CHEM 126	MCDB 101A,B	

<sup>1</sup>Three units maximum from CH E 196 and CH E 198 combined; only for students with GPA of 3.0 or higher.

Technical electives taken:

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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.

Units
<b>UNIVERSITY REQUIREMENTS</b>
American History and Institutions – (one 4-unit course, may be counted as G.E. if selected from approved list)
UC Entry Level Requirement: English Composition <i>Must be fulfilled within three quarters of matriculation</i>
Satisfied by: _____

Units
<b>GENERAL EDUCATION</b>
<b>General Subject Areas</b>
Area A: English Reading & Comprehension – (2 courses required)
A-1: _____ A-2: _____
Areas D & E: Social Sciences, Culture and Thought (2 courses minimum)
Areas F & G: The Arts, Literature (2 courses minimum)
2 additional courses from Areas D, E, F, G, or H

<b>Special Subject Areas</b>
Depth: _____
Ethnicity (1 course): _____
European Traditions (1 course): _____
Writing (4 courses required): _____

Units
<b>NON-MAJOR ELECTIVES</b>
<b>32</b>
General Education and Free Electives taken:
_____
_____
_____
_____
_____
_____

**TOTAL UNITS REQUIRED FOR GRADUATION ..... 187**