18 APR 2018 CC/ 28 MAY 2018 UC

OFFICIAL RELEASE

DEPARTMENT OF CHEMICAL ENGINEERING College of Engineering

University of the Philippines Diliman

PROPOSED PROGRAM OF STUDY

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING 153 units

FIRST YEAR						
1st Semester	20 units	Grade	2nd Semester	19 units	Cunda	
ChemE 101	3		ChemE 102	25 dilits	Grade	
ChemE 103	1	ChemE 105 Chem 17 Chem 17.1 Math 22 Physics 72	3			
Chem 16	3		3			
Chem 16.1	2		9304/1980000 111 118000	100 VOT 100 VO	3	
Math 211	4		CONTRACTOR STA	2		
Physics 71	4		AND	4	19	
Eng 13/Speech 30	-		DISTRIBUTE CONTROL CON	4		
PE PE	3		PE	(2)		
r c	(2)			245	CA COLUMN TO THE OWNER OF THE OWNER	

SECOND YEAR					
1st Semester	20 units	Grade	2nd Semester	20 units	Cunda
ChemE 104	1		ChemE 123	_o units	Grade
ChemE 106	3		ChemE 130	3	
ChemE 122	3		CANCEL CONTROL OF THE	3	
Chem 28	3	-	ChemE 131	3	
Chem 28.1	3		Chem 31	3	
ES 101	2	()	Chem 31.1	2	
	4		Kas 1	3	
Math 23	4	_	Philo 1	3	-
PE	(2)		PE	(2)	
NSTP ²	(3)		NSTP ²	(2)	
			11311	(3)	

THIRD YEAR					
1st Semester	19 units	Grade	2nd Semester	19 units	
ChemE 128	4		ChemE 133	To units	Grade
ChemE 132	4		ChemE 143	3	
ChemE 134	3		A SAME OF THE PROPERTY OF THE	2	
ChemE 135	2		ChemE 145	2	
ES 102	2		ChemE 170	3	
FIL 40	3		ARTS 1	3	
FIL 40	3		Soc Sci 1/Soc Sci 2	3	-
			STS 1/DRMAPS	3	_ unive

- ¹ All students required to take Math 21 must have passed any of the following: (1) Pre-Calculus from the STEM or equivalent strand of K-12; (2) the Validation Examination for Math 20 (Pre-Calculus: Functions and their Graphs) administered by the UPD Institute of Mathematics; or (3) Math 20 as a non-credit course.
- ² As a requirement for graduation, all students must take six (6) units in one of the National Service Training Program (NSTP) components: Civil Welfare Training Service (CWTS), Literacy Training Service (LTS), and Reserved Officers' Training Corps Military Science (ROTC Mil Sci). These are offered by UPD.

3 TRACK ELECTIVES:

ChE 150	Environmental Process Engineering
ChE 153	Industrial Pollution Control

ChE 171 Introduction to Biochemical Engineering

Biochemical Engineering Laboratory ChE 174

ChE 197 Special Topicsa ChE 198 Special Problems^a

EEE 1 Essentials of Electrical and Electronics Engineering

Introduction to Energy Engineering EgyE 101

Other research-related courses as recommended by the research adviser and approved by the Department.

aResearch-based topics as recommended by the research adviser and approved by the Department.

⁴ SCIENCE AND TECHNOLOGY ELECTIVES:

Special Topics b
Special Problems b
Introduction to Quantum Chemistry
Engineering Statistics
Elements of Environmental Engineering
Essentials of Electrical and Electronics Engineering
Industrial Electronics and Equipment
Introduction to Semiconductor Devices and Circuit Theory
Introduction to Energy Engineering
Introduction to Food Technology
Probability and Statistics for L. 1
Probability and Statistics for Industrial Engineering Operations Research I



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IE 138

IE 159

IE 197

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1	Geol 11	Principles of Geology
2	MatE 10	Engineering Materials
3	MatE 11	Fundamentals of Materials Engineering I
4	ME 10	Survey of Manufacturing Processes
5	ME 73	Mechanical Measurement and Instrumentation
6 7	MetE 11	Principles of Metallurgy
7	MetE 143	Elements of Materials Science
8 9	MS 102	The Marine Sciences
9	Stat 101	Elementary Statistics
10	Stat 114	Descriptive Statistics
11	Other courses	s offered by other units as recommended by the program adviser and
12	approved by tl	ne Department, including another Track Elective.
13	^b Any science	and technology-centered topics, including research-based topics, as
14	recommended	d by the program adviser and approved by the Department.
15		program de visor and approved by the Department.
16	5 BUSINESS A	ND MANAGEMENT ELECTIVES:
17	Acctg 1	Introduction to Financial Accounting
18	BA 101	Introduction to Business Management
19	BA 102	Philippine Business Environment
20	BA 151	Human Behavior in Organizations
21	ChE 197	Special Topic: Project Management for Chemical Engineers
22	Econ 100.1	Introduction to Macroeconomic Theory and Policy
23	Econ 100.2	Introduction to Microeconomic Theory and Policy
24	IE 3	Introduction to Industrial Engineering
25	IE 41	Industrial Organization and Management
26	IE 138	Manufacturing Management

Introduction to Technology Technopreneurship

Other courses as recommended by the program adviser and approved by the Department.

Manufacturing Management

Special Topic: Technopreneurship

