PROGRAM OF STUDY
BS CHEMICAL ENGINEERING
GENERAL CURRICULUM 2018

First Semester		Units	Second Semester		Units
			FIRST YEAR		
ChE 10	Introduction to Chem. Eng. Profession	1	CHEM 32	Quantitative Inorganic Analysis	3
CHEM 18	University Chemistry	3	CHEM 32.1	Quantitative Inorganic Analysis Laboratory	2
CHEM 18.1	University Chemistry Laboratory	2	CHEM 40	Basic Organic Chemistry	4
MATH 27	Analytical Geometry & Calculus II	3	CHEM 40.1	Basic Organic Chemistry Laboratory	1
PHYS 51	Elements of Physics	4	MATH 28	Analytical Geometry & Calculus III	3
PHYS 51.1	Elements of Physics Laboratory	1	GE	(Elective)	3
MCB 11	Biology and Applications of Microorganisms	3	ARTS 1	Critical Perspectives in the Arts	3
PI 10	The Life and Works of Jose Rizal	3	STS 1	Science, Technology and Society	3
HK 11	Wellness and Basic Injury Management	(2)	HK 12	Human Kinetics Activities	(2)
NSTP 1	National Service Training Program I	(3)	NSTP 2	National Service Training Program	(3)
		20			**22**
			SECOND YEAR		
ChE 30	Fundamentals of Chemical Engineering	4	ENSC 26	Computer Applications in Engineering	3
ENSC 10.1	Engineering Graphics Laboratory	2	ChE 32	Industrial Stoichiometry	3
ENSC 11	Statics of Rigid Bodies	3	ENSC 12	Dynamics of Rigid Bodies	3
EE 1	Basic Electrical Engineering	3	ENSC 21	Mathematical Methods in Engineering	3
CHEM 111	Physical Chemistry I	3	CHEM 111.1	Physical Chemistry I Laboratory	2
CHEM 160	Introductory Biochemistry	3	CHEM 112	Physical Chemistry II	3
KAS 1/HIST 1	Kasaysayan ng Pilipinas/Philippine History	3	GE	(Elective)	3
HK12/HK13	Human Kinetics Activities/	(2)	HK12/HK13	Human Kinetics Activities/	(2)
	Advanced Human Kinetics Activities	**21**		Advanced Human Kinetics Activities	**20**
			THIRD YEAR		
ChE 142	Chemical Engineering Thermodynamics I	3	ChE 143	Chemical Engineering Thermodynamics II	3
ChE 147	Application of Fluid Dynamics in Chem. Eng.	3	ChE 145	Chemical Reaction Engineering	3
ChE 149	Transport Phenomena	3	ChE 153	Transfer Operations I	3
ChE 152	Separation Processes	3	ChE 154	Transfer Operations II	3
ENSC 13	Strength of Materials	3	ChE 172	Introduction to Biochemical Engineering	3
STAT 168	Response Surface Methodology	3	ChE 180	Agro-Industrial Waste Management	3
COMM 10	Critical Perspectives in Communication	3	ENG 10	Writing of Scientific Paper	3
		21			**21**
			MIDYEAR		
			ChE 198	Internship	3
					3
			FOURTH YEAR		
ChE 157.1	Chem. Eng. Unit Operations Laboratory	2	ChE 170	Instrumentation and Process Dynamics and Control	3
ChE 191	Special Topics	3	ChE 185	Chemical Engineering Laws, Ethics, Specifications and Contracts	2
ChE 192	Chemical Process Equipment Design	3	ChE 193	Plant Design	3
ChE 200 or	UndergraduateThesis	3	ChE 199	Plant Inspection and Seminar	1
ChE 200b or	Innovationeering		ChE 200 or	UndergraduateThesis	3
ChE 200c	Engineering Industry Research		ChE 200b or	Innovationeering	
Cognate		3	ChE 200c	Engineering Industry Research	
ETHICS 1	Ethics and Moral Reasoning in Everyday Life	3	Cognate		3
GE	(Elective)	3			
		20			**15**

TOTAL UNITS: 163

BS Chemical Engineering – General Curriculum Flowchart

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