## BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING (Major in Pulp and Paper Technology) Special UPLB UC Meeting 05 / 21-22 / 18; President's Approval 08/28/19

Units Second Semester

#### **First Semester**

CHEM 18

MATH 27 PHYS 51

PHYS 51.1

MCB 11 ChE 10

PI 10

HK 11 NSTP 1

CHEM 18.1

	FIRS	T YEAR				
University Chemistry	3	CHEM 32	Quantitative Inorganic Analysis			
University Chemistry Laboratory	2	CHEM 32.1	Quantitative Inorganic Analysis Laboratory			
Analytical Geometry & Calculus II	3	CHEM 40	Basic Organic Chemistry			
Elements of Physics	4	CHEM 40.1	Basic Organic Chemistry Laboratory			
Elements of Physics Laboratory	1	MATH 28	Analytical Geometry and Calculus II			
Biology and Applications of Microorganisms	3	GE	(Elective)			
Introduction to Chem. Eng. Profession	1	ARTS 1	Critical Perspectives in the Arts			
The Life and Works of Jose Rizal	3	STS 1	Science, Technology and Society			
Wellness and Basic Injury Management	(2)	HK 12	Human Kinetics Activities			
National Service Training Program I	(3)	NSTP 2	National Service Training Program II			
	20	_				
SECOND YEAR						
OECOND TEAN						

OLOOND ILAN						
ChE 30	Fundamentals of Chemical Engineering	4	ChE 32	Industrial Stoichiometry	3	
ENSC 11	Statics of Rigid Bodies	3	FPPS 111	Wood and Fiber Anatomy	3	
ENSC 10.1	Engineering Graphics Laboratory	2	FPPS 131	Wood Chemistry I	3	
EE 1	Basic Electrical Engineering	3	ENSC 12	Dynamics of Rigid Bodies	3	
CHEM 160	Introductory Biochemistry	3	ENSC 21	Mathematical Methods in Engineering	3	
CHEM 111	Physical Chemistry I	3	CHEM 111.1	Physical Chemistry I Laboratory	2	
KAS1/HIST 1	Kasaysayan ng Pilipinas/Philippine History	3	CHEM 112	Physical Chemistry II	3	
HK12/HK13	Human Kinetics Activities/	(2)	HK12/HK13	Human Kinetics Activities/	(2)	
	Advanced Human Kinetics Activities	21	-	Advanced Human Kinetics Activities	20	

		THIRL	) YEAR		
ChE 142	Chemical Engineering Thermodynamics I	3	ENSC 26	Computer Applications in Engineering	3
ChE 147	Application of Fluid Dynamics in Chem. Eng	3	ChE 143	Chemical Engineering Thermodynamics II	3
ChE 149	Transport Phenomena	3	ChE 145	Chemical Reaction Engineering	3
ChE 152	Separation Processes	3	ChE 153	Transfer Operations I	3
FPPS 132	Pulp and Paper Technology	3	ChE 154	Transfer Operations II	3
FPPS 132.1	Pulp and Paper Laboratory	2	PPT 170	Instrumentation and Process Control for the	3
				Pulp and Paper Industry	
ENSC 13	Strength of Materials	3	COMM 10	Critical Perspectives in Communication	3
		20			21

## MIDYEAR

Internship

PPT 198

# 3

		FOURT	TH YEAR		
ChE 157.1	Chem. Eng. Unit Operations Laboratory	2	PPT 193	Pulp and Paper Plant Design	3
ChE 185	Chemical Engineering Laws, Ethics, Specifications & Contracts	2	PPT 199	Undergraduate Seminar	1
ChE 192	Chemical Process Equipment Design	3	PPT 200 or PPT 200b or PPT 200c	Undergraduate Thesis or Innovationeering or Engineering Industry Research	3
PPT 188	Environmental Technology for the Pulp and Paper Industry	3	FPPS 183	Engineering Economic Analysis	3
PPT 200 or PPT 200b or PPT 200c	Undergraduate Thesis or Innovationeering or Engineering Industry Research	3	ETHICS 1	Ethics and Moral Reasoning in Everyday Life	3
ENG 10	Writing of Scientific Papers	3	GE	(Elective)	3
STAT 168	Response Surface Methodology	3	GE	(Elective)	3
		19			19

TOTAL NUMBER OF UNITS......165

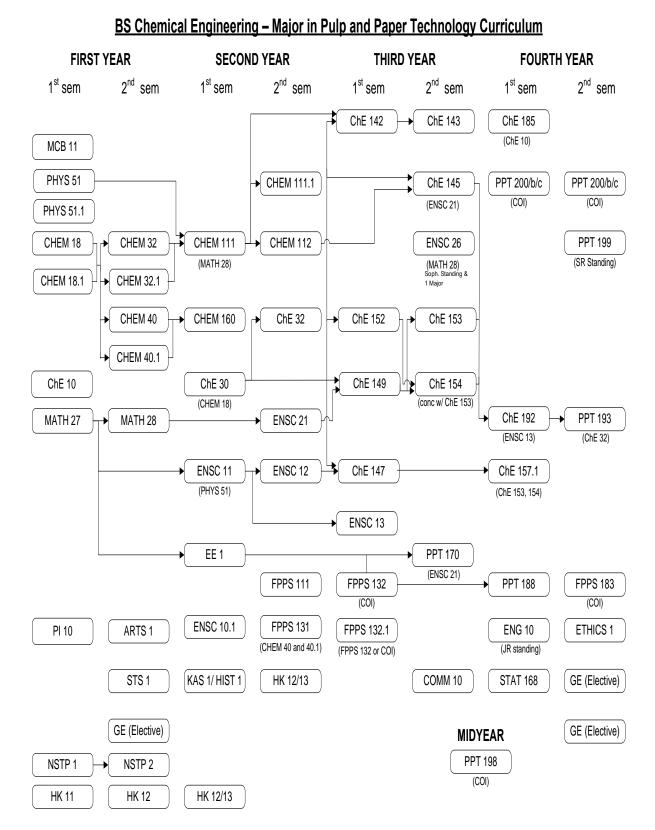
Units

3 2

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BS Chemical Engineering – Major in Pulp and Paper Technology Flowchart