

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

First Semester	Units	Second Semester	Units		
<i>FIRST YEAR</i>					
CHEM 18	University Chemistry	3	CHEM 32	Quantitative Inorganic Analysis	3
CHEM 18.1	University Chemistry Laboratory	2	CHEM 32.1	Quantitative Inorganic Analysis Laboratory	2
MATH 27	Analytical Geometry & Calculus II	3	CHEM 40	Basic Organic Chemistry	4
PHYS 51	Elements of Physics	4	CHEM 40.1	Basic Organic Chemistry Laboratory	1
PHYS 51.1	Elements of Physics Laboratory	1	MATH 28	Analytical Geometry and Calculus II	3
MCB 11	Biology and Applications of Microorganisms	3	GE	(Elective)	3
ChE 10	Introduction to Chem. Eng. Profession	1	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 II	(3)
		20			22
<i>SECOND YEAR</i>					
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/ Advanced Human Kinetics Activities	(2)	HK12/HK13	Human Kinetics Activities/ Advanced Human Kinetics Activities	(2)
		21			20
<i>THIRD YEAR</i>					
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 Pulp and Paper Industry	3
ENSC 13	Strength of Materials	3	COMM 10	Critical Perspectives in Communication	3
		20			21
<i>MIDYEAR</i>					
	PPT 198	Internship			$\frac{3}{3}$
<i>FOURTH YEAR</i>					
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

BS Chemical Engineering – Major in Pulp and Paper Technology Flowchart

BS Chemical Engineering – Major in Pulp and Paper Technology Curriculum

