

#### **BACHELOR OF SCIENCE - CHEMICIAL ENGINEERING**

#### **Program Description**

Bachelor of Science in Chemical Engineering is a profession that involves the conceptualization, development, design, improvement and application of safe, healthy, ethical and economic ways of utilizing materials and energy in unit processes and operations for the benefit of society and the environment through the knowledge of mathematics, chemistry, biology, information technology and other natural, applied and social sciences, gained by study, research and practice. Chemical Engineering is one of the broader fields of engineering disciplines both in terms of the range of problems that fall within its purview and in the range of knowledge required to solve those problems

#### **Program Educational Objectives**

Within three to five years after obtaining a bachelor's degree in Chemical Engineering at University of St. La Salle, a graduate is expected to have:

- Successful career in chemical engineering and /or related fields, and be prepared to pursue a broad range of chemical engineering-related career and graduate school opportunities.
- Utilize his/her knowledge in chemical engineering and effectively contribute to address contemporary chemical engineering issues for society as well as to the profession. Manifest ability to communicate effectively both in written, oral or visual forms through writing research report and presentation.
- Sense of social responsibility through participating in community based activities and professional commitment by being actively involved in professional organizations in the field of Chemical Engineering as well as community-based organizations.

### **Program Learning Outcomes**

By the time of graduation, the students of the program shall be able to:

- a. apply thorough knowledge of mathematics and sciences in solving for material and energy balances with other pertinent equations involved in complex Chemical Engineering Subjects
- design and conduct experiments to test hypothesis and verify assumptions, analyze and interpret data and to simulate Chemical Engineering processes;
- design a physical or chemical system, component, or process to meet industry needs within realistic constraints, in accordance and compliance with standards set for sustainability;
- function well in the industry where multidisciplinary and multi-cultural teams collaborate in the attainment of processed set goals;
- identify, formulate and solve complex chemical engineering problems with the comprehensive application of the concepts on Unit Operations, Chemical Process Industries and Instrumentation and Process Control;
- f. apply professional and ethical responsibility in the creation of innovations and become professionals who are morally and legally conscious in the practice of their professions;



- g. communicate effectively complex chemical engineering activities with the engineering community and with the society at large and explain the role of each member of the community in the sustainability of such activity;
- understand the impact of chemical engineering solutions in a global, economic, environmental and societal context and its significance in the improvement and preservation of life in general;
- pursue life-long learning in the context of innovation, research, technological developments and environmental protection;
- j. use inquiry skills to examine the chemical engineering issues that impact the contemporary world and engage in research and problem solving in order to better understand and assess the significance of the chemical engineering field in these issues;
- k. use modern computational engineering tools, soft wares or instruments in processing problems involving chemical engineering
- develop inter-personal, managerial and communication skills, and cultivate professional ethics and values needed to collaborate with other fields of study for the growth of oneself and that of the organization as a whole;
- focus on at least one specialized field of practice in preparation for those who will pursue graduate work and those who will venture into the field of research and development

#### **Admission Requirements**

- 1. Students seeking admission to the program must have a GPA of at least 80%;
- 2. Students admitted on probation must comply with the terms and conditions set by the University.

## Retention Policies (In addition to the University's standard retention policy)

Load limit of students with FAILURES, SUBJECTS DROPPED or WITHDRAWN:

- A student with one (1) subject failed, dropped or withdrawn will carry a maximum load of 21 units the following semester.
- A student with 2 or 3 subjects failed, dropped or withdrawn will carry a maximum load of 18 units the following semester.

A student will be dismissed from the ChE program if:

- He/she incurs failures in Chemistry for Engineers (lec/lab), Calculus 1, Calculus 2, Physics for Engineers, Analytical Chemistry, Chemical Engineering Calculations, Physical Chemistry for Engineers and Momentum Transfer.
- 2. He/she incurs an accumulated 18 units of failure.
- 3. He/she fails the Admissions Exam for Chemical Engineering Students administered on the summer of his/her First Year.



## **BACHELOR OF SCIENCE - CHEMICIAL ENGINEERING**

First Year	_	_						
First Seme			Lab		Prerequisite	Co-requisite		
EMA101	Calculus 1 (Differential Calculus)	4		4	None			
CHM101E	Chemistry for Engineers	4	2	4	None			
	Chemistry for Engineers Lab Mathematics in the Modern World	2	3	1	None			
MATHMW		3		3 3	None			
NSTP1	NSTP 1	3		3	None			
PED1	Physical Education 1	2		2	None			
DUICT	(Wellness and Fitness)	3		2 3	None			
RHIST	Readings in Philippine History				None			
USELF	Understanding the Self	3		3	None			
IRS1	Lasallian Spirituality	3		3	None			
IGG	GG 1	1.5	_	1.5	None			
	Total	26.5	3	27.5	None			
Second Se	mostor	Lec	Lah	Units	Prerequisite	Co-requisite		
ECHE101	Analytical Chemistry (lecture)	4	3	5	Chemistry for	Co-requisite		
LCHLIUI	Analytical Chemistry (lecture)	7	,	,	Engineers			
ARTAP	Art Appreciation	3		3	None			
		4		4	Calculus 1			
	Calculus 2 (Integral Calculus)	4		4	Calculus 1			
CFP101	Computer Fundamentals		2	4	Mana			
NCTDO	and Programming	2	3	1	None			
NSTP2	NSTP 2	3		3	NSTP 1			
PED2	Physical Education 2							
	(Team Sports and Rhythmic	_		_	DED 4			
DI D (4 0 4 E	Activities)	2		2	PED 1			
PHY101E	Physics for Engineers (lecture)	4	_	4	Calculus 1			
PHY101EL	Physics for Engineers Laboratory		3	1		Physics for		
CE 101	Facility and an Donathan		_		None	Engineers		
GE 101	Engineering Drawing	20	3	1	None			
	Total	20	12	24				
Second Ye	Constant Vision							
	ar							
First Seme		l ec	Lah	Units	Prerequisite	Co-requisite		
First Seme	ester	Lec 2			Prerequisite Analytic Chem			
ECHE102	ester Chemical Engineering Calculations	2	<b>Lab</b> 3	3	Analytic Chem			
ECHE102 EMA103	ester Chemical Engineering Calculations Differential Equation	2		3 3	Analytic Chem Calculus 2			
ECHE102 EMA103 EMA104	ester Chemical Engineering Calculations Differential Equation Engineering Data Analysis	2 3 3		3 3 3	Analytic Chem Calculus 2 Calculus 1			
ECHE102 EMA103	ester Chemical Engineering Calculations Differential Equation	2		3 3	Analytic Chem Calculus 2 Calculus 1 Physics for			
ECHE102 EMA103 EMA104 GE102	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics	2 3 3 3		3 3 3 3	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers			
ECHE102 EMA103 EMA104 GE102	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal	2 3 3 3 3	3	3 3 3 3	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None	istry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry	2 3 3 3		3 3 3 3	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers	istry		
ECHE102 EMA103 EMA104 GE102	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics Life and Works of Rizal Organic Chemistry Physical Education 3	2 3 3 3 4	3	3 3 3 3 5	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None Analytical Che	istry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103 PED3	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry Physical Education 3 (Swimming and Recreation)	2 3 3 3 3	3	3 3 3 3	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None	istry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry Physical Education 3 (Swimming and Recreation) Kontekstwalisadong Komunikasyon	2 3 3 3 4 2	3	3 3 3 3 5	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None Analytical Che	istry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103 PED3	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry Physical Education 3 (Swimming and Recreation) Kontekstwalisadong Komunikasyon sa Filipino	2 3 3 3 4 2	3	3 3 3 3 5 2	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None Analytical Che	istry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103 PED3	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry Physical Education 3 (Swimming and Recreation) Kontekstwalisadong Komunikasyon	2 3 3 3 4 2	3	3 3 3 3 5	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None Analytical Che	istry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103 PED3	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry Physical Education 3 (Swimming and Recreation) Kontekstwalisadong Komunikasyon sa Filipino Total	2 3 3 3 4 2 3 <b>24</b>	3 3	3 3 3 3 5 2 2 3 25	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None Analytical Che	nistry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103 PED3 FILI1	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry Physical Education 3 (Swimming and Recreation) Kontekstwalisadong Komunikasyon sa Filipino Total	2 3 3 3 4 2 3 24 Lec	3 3	3 3 3 3 5 2 2 <b>3</b> <b>25</b> <b>Units</b>	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None Analytical Che PED 2 None	nistry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103 PED3 FILI1	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry Physical Education 3 (Swimming and Recreation) Kontekstwalisadong Komunikasyon sa Filipino Total	2 3 3 3 4 2 3 <b>24</b>	3 3	3 3 3 3 5 2 2 3 25	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None Analytical Che PED 2 None Prerequisite	nistry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103 PED3 FILI1	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry Physical Education 3 (Swimming and Recreation) Kontekstwalisadong Komunikasyon sa Filipino Total  Total  Memester Advanced Engineering Mathematics for ChE	2 3 3 3 4 2 3 24 Lec	3 3 <b>Lab</b>	3 3 3 3 5 2 2 <b>3</b> <b>25</b> <b>Units</b>	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None Analytical Che PED 2 None Prerequisite Differential Equation	nistry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103 PED3 FILI1	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry Physical Education 3 (Swimming and Recreation) Kontekstwalisadong Komunikasyon sa Filipino Total  Total  Emester Advanced Engineering Mathematics	2 3 3 3 4 2 3 24 Lec	3 3	3 3 3 3 5 2 2 <b>3</b> <b>25</b> <b>Units</b>	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None Analytical Che PED 2 None Prerequisite Differential Equation (Engineering	nistry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103 PED3 FILI1 Second Se ECHE104	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry Physical Education 3 (Swimming and Recreation) Kontekstwalisadong Komunikasyon sa Filipino Total  Total  Emester Advanced Engineering Mathematics for ChE  Computer-Aided Design	2 3 3 3 4 2 3 24 Lec	3 3 <b>Lab</b>	3 3 3 3 5 2 2 <b>3</b> <b>25</b> <b>Units</b>	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None Analytical Che PED 2 None Prerequisite Differential Equation	nistry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103 PED3 FILI1	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry Physical Education 3 (Swimming and Recreation) Kontekstwalisadong Komunikasyon sa Filipino Total  Total  Emester Advanced Engineering Mathematics for ChE  Computer-Aided Design  Fundamentals of Materials Science	2 3 3 3 4 2 3 24 Lec	3 3 <b>Lab</b>	3 3 3 3 5 2 2 3 25 Units	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None Analytical Che PED 2 None Prerequisite Differential Equation (Engineering Drawing)	nistry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103 PED3 FILI1 Second Se ECHE104	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry Physical Education 3 (Swimming and Recreation) Kontekstwalisadong Komunikasyon sa Filipino Total  Total  Emester Advanced Engineering Mathematics for ChE  Computer-Aided Design	2 3 3 3 4 2 3 24 Lec	3 3 <b>Lab</b>	3 3 3 3 5 2 2 <b>3</b> <b>25</b> <b>Units</b>	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None Analytical Che PED 2 None  Prerequisite  Differential Equation (Engineering Drawing)  Organic	nistry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103 PED3 FILI1 Second Se ECHE104 GE103 GE104	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry Physical Education 3 (Swimming and Recreation) Kontekstwalisadong Komunikasyon sa Filipino Total  Total  Emester Advanced Engineering Mathematics for ChE  Computer-Aided Design Fundamentals of Materials Science and Eng'g	2 3 3 3 4 2 3 24 Lec 3	3 <b>3 Lab</b>	3 3 3 3 5 2 3 25 Units 3 1	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None Analytical Che PED 2 None  Prerequisite  Differential Equation (Engineering Drawing)  Organic Chemistry	nistry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103 PED3 FILI1 Second Se ECHE104	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry Physical Education 3 (Swimming and Recreation) Kontekstwalisadong Komunikasyon sa Filipino Total  Total  Emester Advanced Engineering Mathematics for ChE  Computer-Aided Design  Fundamentals of Materials Science	2 3 3 3 4 2 3 24 Lec	3 3 <b>Lab</b>	3 3 3 3 5 2 2 3 25 Units	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None Analytical Che PED 2 None  Prerequisite  Differential Equation (Engineering Drawing)  Organic Chemistry Chemical	nistry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103 PED3 FILI1 Second Se ECHE104 GE103 GE104	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry Physical Education 3 (Swimming and Recreation) Kontekstwalisadong Komunikasyon sa Filipino Total  Total  Emester Advanced Engineering Mathematics for ChE  Computer-Aided Design Fundamentals of Materials Science and Eng'g	2 3 3 3 4 2 3 24 Lec 3	3 <b>3 Lab</b>	3 3 3 3 5 2 2 3 25 Units 3 1	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None Analytical Che PED 2 None  Prerequisite  Differential Equation (Engineering Drawing)  Organic Chemistry Chemical Engineering	nistry		
ECHE102 EMA103 EMA104 GE102 RIZAL ECHE103 PED3 FILI1 Second Se ECHE104 GE103 GE104	Chemical Engineering Calculations Differential Equation Engineering Data Analysis Engineering Mechanics  Life and Works of Rizal Organic Chemistry Physical Education 3 (Swimming and Recreation) Kontekstwalisadong Komunikasyon sa Filipino Total  Total  Emester Advanced Engineering Mathematics for ChE  Computer-Aided Design Fundamentals of Materials Science and Eng'g	2 3 3 3 4 2 3 24 Lec 3	3 <b>3 Lab</b>	3 3 3 3 5 2 2 3 25 Units 3 1	Analytic Chem Calculus 2 Calculus 1 Physics for Engineers None Analytical Che PED 2 None  Prerequisite  Differential Equation (Engineering Drawing)  Organic Chemistry Chemical	nistry		



					Differential Equation
PED4	Physical Education 4	-		_	·
PCHEM101	(Individual and Dual Sports) Physical Chemistry for Engrs 1	2	3	2 3	PED 3 Analytical Chemistry,
PCOM STS FILI2 IRS2	Purposive Communication Science, Technology and Society Filipino sa Iba't Ibang Disiplina Christian Morality	3 3 3		3 3 3 3	Calculus 2 None None Filipino 1 Lasallian Spirituality
	Total	24	9	27	Spirituality
THIRD YE					Proceedable Committee
First Seme BEE200	Basic Electrical and Electronics	Lec	Lab	Units	Prerequisite Co-requisite
	Engineering	2	3	3	Physics for Engrs
ECHE106	Chemical Engineering Thermodynamics	2	3	3	Physical Chem for Engrs 1,
CACHE	Computer Applications in ChE		3	1	Chemical Engg Calcuations Computer Fundamentals and Programming
GE105	Environmental Science and Engineering	3		3	None
ETHICS	Ethics	3		3	Third year standing
ECHE107	Heat and Mass Transfer (HMT(	3	3	4	Momentum Transfer
ECHE108	Methods of Research		3	1	Physical Chem for Engrs 1, Chemical Eng'g Calcuations, Purposive Com, Engg Data Analysis
PCHEM102	Phyiscal Chemistry for Engineers 2	2	3	3	Physical Chem for Engrs 1
EIA1C	Engineering Intensive Appraisal for ChE 1		3	1	3rd Year
	Total	15	21	22	Standing
Second Se ECHE109L	<b>mester</b> Chemical Engineering Lab 1	Le	<b>c Lab</b> 3	Units 1	Momentum Transfer,
ECHE110	Chemical Process Industries (CPI)	3		3	HMT Organic Chemistry, Chemical
ECHE111	Chemical Reaction Engineering (CRE)	3	3	4	Engineering Calculations Phyiscal Chemistry for Engrs 2, Advanced Engg Math for ChE,
GE106	Engineering Economics	3		3	HMT Engineering Data Analysis



	13PALLE						
ECHE112	Particle Technology	2	3	3	Momentum Transfor		
ECHE113	Separation Process	2	3	3	Transfer HMT, Chem Engg		
ECHE114	Solution Thermodynamics	2	3	3	Thermodynamics Chemical Engg Thermo, Advanced		
ECHE115 EIA2C	Food Processing Technologies Engineering Intensive Appraisal 2	3		3	Engg Math for ChE, Computer Appl in ChE 3rd Year Standing		
	for CHE <b>Total</b>	18	3 <b>18</b>	1 <b>24</b>	3rd Year Standing		
Summer of CHEMIM	or <b>Third Term</b> Chemical Engineering Immersion		<b>Hrs</b> 240	Units 1	Prerequisite Co-requisite 4th Year Standing		
FOURTH Y	/EAR						
First Sem		Lec	Lab	Units	Prerequisite Co-requisite		
ECHE116	Biochemical Engineering	3		3	CRE, Org Chem		
CED101	Chemical Engineering Design 1	1	3	2	Separation Processes, CRE,		
CED101L	Chemical Engineering Lab 2		3	1	Particle Tech Chemical Engineering Lab 1		
CLE101	Chemical Engineering Laws and Ethics	1		1	Ethics		
CPL101L	Chemical Process Lab	1	3	1	Organic Chemistry		
GE107	Engineering Management	2		2	(lec & lab) Engineering Economics		
ECHE117	Process Safety	1		1	4th Year Standing		
CWRLD ECHE118	The Contemporary World Environmental Impact Assessment	3 3		3 3	None Environmental		
EIA3C	Engineering Intensive Appraisal for ChE 3		3	1	Science & Engg 4th Year		
DULT		2	3		Standing		
PHLIT	Philippine Literature <b>Total</b>	3 <b>17</b>	12	3 <b>21</b>			
Second Se	emester	Lec	Lab	Units	Prerequisite Co-requisite		
ECHE119	Chemical Engineering Design 2	2	3	3	Chemical Engg Design 1, Process Dynamics & Control, Engineering Economy		
PSPEAK ECHE120	Public Speaking Industrial Waste Management	3		3	None		
LOHLIZU	and Control	3		3	Environmental Science and		
ECHE121 ECHE122	Plant Inspections and Seminars Process Dynamics and Control	2	3	1 3	Engg, Particle Tech CRE, HMT Advanced Engg Math for ChE		



GE108	Technoprenuership	3		3	Engineering
					Management,
					Engineering
					Economics
ECHE123	Solid Waste Management	3		3	Environmental
					Impact Assessment
EIA4C	Engineering Intensive Appraisal				
	for ChE 4		3	1	4th Year Standing
	Total	16	12	20	



# BACHELOR OF SCIENCE - CHEMICIAL ENGINEERING SUMMARY OF REQUIRED COURSES

	No. of Courses	Unit Equivalent	Total Units
<b>Technical Courses</b> Mathematics			
Calculus 1 – 2	2	8	
Differential Equation	1	3	11
Natural/Physical Sciences	-	J	
Chemistry for Engineers	2	5	
Physics for Engineers	2	5	10
Basic Engineering Sciences	_	J	
Computer Fundamentals and Programming	1	1	
Engineering Drawing	1	1	
Engineering Data Analysis	1	3	
Engineering Mechanics	1	3	
Computer-Aided Design	1	1	
Engineering Economics	1	3	
Engineering Management	1	2	
Technoprenuership	1	3	17
Allied Courses			
Fundamentals of Materials Science and Engineering	1	3	
Basic Electrical and Electronics Engineering	2	3	
Environmental Science and Engineering	1	3	
Analytical Chemistry	2	5	
Organic Chemistry	2	5	19
Professional Courses			
Advanced Engineering Mathematics for ChE	1	3	
Chemical Engineering Calculations	1	3	
Momentum Transfer	2	3	
Physical Chemistry for Engineers 1	2	3	
Physical Chemistry for Engineers 2	2	3	
Chemical Engineering Thermodynamics	1	3	
Computer Applications in ChE	1	1	
Heat and Mass Transfer Lecture	2	4	
Chemical Process Industries	1	3	
Chemical Reaction Engineering	2	4	
Particle Technology Lecture	2	3	
Separation Process Lecture	2	3	
Solution Thermodynamics	1	3	
Chemical Engineering Immersion	1	2	
Biochemical Engineering	1	3	
Chemical Engineering Laws and Ethics	1	1	
Process Safety	1	1	
Industrial Waste Management and Control	1	3	
Plant Inspections and Seminars	1	1	
Process Dynamics and Control	2	3	
Methods of Research	1	1	
Chemical Engineering Design 1–2	4	5	
Chemical Engineering Lab 1– 2	2	2	
Chemical Process Lab	1	1	
Food Processing Technologies	1	3	
Environmental Impact Assessment	1	3	
Solid Waste Management	1	3	
Engineering Intensive Appraisal 1-4 for CHE	4	4	75
General Education/Mandated			
Mathematics in the Modern World	1	3	
NSTP 1– 2	2	6	
Readings in Philippine History	1	3	
recoungs in imappine instory	1	5	



Understanding the Self Art Appreciation Life and Works of Rizal Purposive Communication Science, Technology and Society Ethics The Contemporary World GE Elective 2 (Great Books) Filipino1 – 2 Physical Education 1 – 4	1 1 1 1 1 1 1 2	3 3 3 3 3 3 6 8	50
Institutional Courses  GG 1  LaSallian Spirituality Christian Morality Spirituality in the Workplace	1 1 Total	1.5 3 3 3	10.5 <b>192.5</b>