

# Bachelor of Science in Chemical Engineering

(Curriculum applicable to students who entered as freshmen beginning school year 2012-2013)

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	1	CWTS011	OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM	-	3.0	(2.0)		
1	1	DRAW021W	ENGINEERING DRAWING 1 (DRAW)	-	3.0	1.0		
1	1	ENG021	ENGLISH FOR ACADEMIC STUDIES 1	4.5	-	3.0		
1	1	HUM014	PHILIPPINE LITERATURE IN ENGLISH	4.5	-	3.0		
1	1	MATH011	ALGEBRA	4.5	-	3.0		
1	1	PE021	PHYSICAL EDUCATION 1: PHYSICAL FITNESS AND GYMNASTICS	-	2.5	(1.5)		
1	1	SS016	PHILIPPINE HISTORY	4.5	-	3.0		
1	1	VE011	VALUES EDUCATION 1	1.5	-	(1.0)		
<b>Total</b>				<b>19.5</b>	<b>8.5</b>	<b>13.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	2	CWTS012	CIVIC WELFARE TRAINING COURSE - 1	-	3.0	(2.0)	CWTS011	
1	2	DRAW022W	ENGINEERING DRAWING 2 (DRAW)	-	3.0	1.0	DRAW021W	
1	2	ENG022	ENGLISH FOR ACADEMIC STUDIES 2	4.5	-	3.0	ENG021	
1	2	HUM011	LOGIC REASONING WITH CRITICAL THINKING	4.5	-	3.0		
1	2	MATH011-2	ADVANCED ALGEBRA	3.0	-	2.0	MATH011	
1	2	MATH012	PLANE AND SPHERICAL TRIGONOMETRY	4.5	-	3.0	MATH011	
1	2	PE022	PHYSICAL EDUCATION 2: DANCE AND MARTIAL ARTS	-	2.5	(1.5)		
1	2	SS015	POLITICS, GOVERNANCE AND THE 1987 PHILIPPINE CONSTITUTION	4.5	-	3.0		
1	2	VE012	VALUES EDUCATION 2	1.5	-	(1.0)	VE011	
<b>Total</b>				<b>22.5</b>	<b>8.5</b>	<b>15.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	3	CWTS013	CIVIC WELFARE TRAINING COURSE - 2	-	3.0	(2.0)	CWTS012	
1	3	DRAW023L	COMPUTER-AIDED DRAFTING & DESIGN (LAB)	-	3.0	1.0	DRAW022W	
1	3	ENG023	ENGLISH FOR ACADEMIC STUDIES 3	4.5	-	3.0	ENG022	
1	3	HUM016	ADVANCED LOGIC AND REASONING	4.5	-	3.0	HUM011	
1	3	MATH013	ANALYTIC GEOMETRY	4.5	-	3.0	MATH012	
1	3	MATH014	SOLID MENSURATION	3.0	-	2.0	MATH012	
1	3	MATH021	CALCULUS 1	4.5	-	3.0	MATH012	MATH013
1	3	PE023	PHYSICAL EDUCATION 3: INDIVIDUAL/DUAL SPORTS	-	2.5	(1.5)		
<b>Total</b>				<b>21.0</b>	<b>8.5</b>	<b>15.0</b>		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	1	CHM021	GENERAL CHEMISTRY 1	3.0	-	2.0		
2	1	CHM021L	GENERAL CHEMISTRY 1 LABORATORY	-	3.0	1.0		CHM021
2	1	CS001P	COMPUTER FUNDAMENTALS & PROGRAMMING 1 (PAIRED)	1.5	3.0	2.0		
2	1	FIL001	KOMUNIKASYON SA AKADEMIKONG FILIPINO	4.5	-	3.0		
2	1	MATH022	CALCULUS 2	4.5	-	3.0	MATH013,, MATH021	
2	1	PE024	PHYSICAL EDUCATION 4: ADVANCED INDIVIDUAL/DUAL SPORTS	-	2.5	(1.5)	PE023	
2	1	PHY021	PHYSICS 1	4.5	-	3.0	MATH021	
2	1	PHY021L	PHYSICS 1 (LAB)	-	3.0	1.0	MATH021	PHY021
<b>Total</b>				<b>18.0</b>	<b>11.5</b>	<b>15.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	2	CHM022	GENERAL CHEMISTRY 2	3.0	-	2.0	CHM021	
2	2	CHM022L	GENERAL CHEMISTRY 2 (LAB)	-	3.0	1.0	CHM021,, CHM021L	CHM022
2	2	CS002P	COMPUTER FUNDAMENTALS & PROGRAMMING 2 (PAIRED)	1.5	3.0	2.0	CS001P	
2	2	FIL002	PAGBASA AT PAGSULAT TUNGO SA PANANALIKSIK	4.5	-	3.0	FIL001	
2	2	MATH023	CALCULUS 3	4.5	-	3.0	MATH022	
2	2	PE025	PHYSICAL EDUCATION 5: TEAM SPORTS	-	2.5	(1.5)		
2	2	PHY022	PHYSICS 2	4.5	-	3.0	MATH022,, PHY021	
2	2	PHY022L	PHYSICS 2 (LAB)	-	3.0	1.0	MATH022,, PHY021,, PHY021L	PHY022
<b>Total</b>				<b>18.0</b>	<b>11.5</b>	<b>15.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	3	CHM023	GENERAL CHEMISTRY 3	3.0	-	2.0	CHM022	
2	3	CHM023L	GENERAL CHEMISTRY 3 LABORATORY	-	3.0	1.0	CHM022,, CHM022L	CHM023
2	3	ECE120L	INTRODUCTION TO MATLAB (LAB)	-	3.0	1.0	2nd Year Standing	
2	3	MATH025	DIFFERENTIAL EQUATIONS	4.5	-	3.0	MATH023	
2	3	PE026	PHYSICAL EDUCATION 6: ADVANCED TEAM SPORTS	-	2.5	(1.5)	PE025	
2	3	PHY023	PHYSICS 3	4.5	-	3.0	PHY022	
2	3	PHY023L	PHYSICS 3 (LAB)	-	3.0	1.0	PHY022,, PHY022L	PHY023
2	3	SS013	ECONOMICS, TAXATION AND AGRARIAN REFORM	4.5	-	3.0		
<b>Total</b>				<b>16.5</b>	<b>11.5</b>	<b>14.0</b>		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	1	CHM130	ANALYTICAL CHEMISTRY	4.5	-	3.0	CHM023, , CHM023L	
3	1	CHM130L	ANALYTICAL CHEMISTRY LABORATORY	-	9.0	2.0	CHM023, , CHM023L	CHM130
3	1	CHM141	ORGANIC CHEMISTRY 1	3.0	-	2.0	CHM023, , CHM023L	
3	1	CHM141L	ORGANIC CHEMISTRY 1 (LAB)	-	3.0	1.0	CHM023, , CHM023L	CHM141
3	1	MATH115	ADVANCED ENGINEERING MATHEMATICS	4.5	-	3.0	MATH025	
3	1	MEC101	STATICS OF RIGID BODIES	4.5	-	3.0	MATH022, , PHY022	
<b>Total</b>				<b>16.5</b>	<b>12.0</b>	<b>14.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	2	CHE111P	CHEMICAL ENGINEERING CALCULATIONS 1 (PAIRED)	7.5	-	3.0	CHM130, , MATH011-2	
3	2	CHM142	ORGANIC CHEMISTRY 2	3.0	-	2.0	CHM141	
3	2	CHM142L	ORGANIC CHEMISTRY 2 (LAB)	-	3.0	1.0	CHM141, , CHM141L	CHM142
3	2	CHM155	PHYSICAL CHEMISTRY FOR ENGINEERS 1	4.5	-	3.0	CHM130, , CHM130L, , MATH022	
3	2	CHM155L	PHYSICAL CHEMISTRY FOR ENGINEERS 1 (LAB)	-	4.5	1.0	CHM130, , CHM130L, , MATH022	CHM155
3	2	MATH110	PROBABILITY AND STATISTICS	4.5	-	3.0	MATH011	
3	2	MEC102	DYNAMICS OF RIGID BODIES	3.0	-	2.0	MEC101	
<b>Total</b>				<b>22.5</b>	<b>7.5</b>	<b>15.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	BEC198	BASIC ENGINEERING CORRELATION	-	3.0	(1.0)	CHM023, , MATH115, , PHY023	
3	3	CHE112P	CHEMICAL ENGINEERING CALCULATIONS 2 (PAIRED)	7.5	-	3.0	CHE111P	
3	3	CHE123	CHEMICAL ENGINEERING THERMODYNAMICS 1	4.5	-	3.0	CHM155	
3	3	CHE130	PRINCIPLES OF TRANSPORT PROCESSES	4.5	-	3.0	CHE111P, , MATH025	
3	3	CHM156	PHYSICAL CHEMISTRY FOR ENGINEERS 2	4.5	-	3.0	CHM155	
3	3	CHM156L	PHYSICAL CHEMISTRY FOR ENGINEERS 2 (LAB)	-	4.5	1.0	CHM155, , CHM155L	CHM156
3	3	VE013	VALUES EDUCATION 3	1.5	-	(1.0)	VE011	
<b>Total</b>				<b>22.5</b>	<b>7.5</b>	<b>13.0</b>		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	4	MATH140	DISCRETE MATHEMATICS	4.5	-	3.0	MATH011	
3	4	SS014	JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	4.5	-	3.0		
3	4	SS017	SOCIETY, CULTURE AND FAMILY LIFE	4.5	-	3.0		
<b>Total</b>				<b>13.5</b>	<b>0.0</b>	<b>9.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	CHE124	CHEMICAL ENGINEERING THERMODYNAMICS 2	4.5	-	3.0	CHE123	
4	1	CHE131	MOMENTUM TRANSFER	4.5	-	3.0	CHE130	
4	1	CHM150	INDUSTRIAL CHEMISTRY	3.0	-	2.0	CHM142	
4	1	CHM150L	INDUSTRIAL CHEMISTRY (LAB)	-	4.5	1.0	CHM142, , CHM142L	CHM150
4	1	ENG041L	ENGLISH FOR THE WORKPLACE 1	-	3.0	1.0	ENG023	
4	1	MEC103	MECHANICS OF DEFORMABLE BODIES	4.5	-	3.0	MEC101	
4	1	RES101P	METHODS OF RESEARCH (PAIRED)	1.5	3.0	2.0	MATH110	
<b>Total</b>				<b>18.0</b>	<b>10.5</b>	<b>15.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	2	CHE132	INTRODUCTION TO PARTICLE TECHNOLOGY	3.0	-	2.0	CHE131	
4	2	CHE133	HEAT AND MASS TRANSFER	4.5	-	3.0	CHE131	
4	2	CHE150	CHEMICAL PROCESS INDUSTRIES	4.5	-	3.0	CHM142	
4	2	EE105	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING	3.0	-	2.0	PHY023, , PHY023L	
4	2	EE105L	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING (LAB)	-	4.5	1.0	PHY023, , PHY023L	EE105
4	2	ENG042L	ENGLISH FOR THE WORKPLACE 2	-	3.0	1.0	ENG041L	
4	2	MATH160	NUMERICAL METHODS	4.5	-	3.0	MATH025	
<b>Total</b>				<b>19.5</b>	<b>7.5</b>	<b>15.0</b>		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	3	BIO181	INTRODUCTION TO BIOTECHNOLOGY	4.5	-	3.0	CHM142	
4	3	CHE134P	SEPARATION PROCESSES (PAIRED)	7.5	-	3.0	CHE124,, CHE133	
4	3	CHE180	PROCESS DYNAMICS AND CONTROL	4.5	-	3.0	MATH115	
4	3	CHE198	CHE CORRELATION 1	-	3.0	(1.0)	CHE112P,, CHE124,, CHE150,, CHM130,, CHM142,, CHM156,, MATH110,, MEC102,, MEC103	
4	3	EEO101	ENGINEERING ECONOMY	4.5	-	3.0		
4	3	ENG043L	ENGLISH FOR THE WORKPLACE 3	-	3.0	1.0	ENG042L	
4	3	SAF101	SAFETY MANAGEMENT	1.5	-	1.0		
4	3	VE014	VALUES EDUCATION 4	1.5	-	(1.0)	VE013	
<b>Total</b>				<b>24.0</b>	<b>6.0</b>	<b>14.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	4	CHE199R	CHE INDUSTRY IMMERSION	-	40.0	2.0		
<b>Total</b>				<b>0.0</b>	<b>40.0</b>	<b>2.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	1	CHE102	SAFETY IN THE PROCESS INDUSTRY	3.0	-	2.0	SAF101	
5	1	CHE131L	CHEMICAL ENGINEERING LABORATORY 1	-	4.5	1.0	CHE132,, CHE133	
5	1	CHE141	EQUIPMENT DESIGN	3.0	-	2.0	CHE134P	
5	1	CHE171	CHEMICAL REACTION ENGINEERING 1	4.5	-	3.0	CHE124,, MATH115	
5	1	CHE184L	COMPUTER APPLICATIONS IN CHEMICAL ENGINEERING	-	4.5	1.0	5th Year Standing	
5	1	CHE200D-1	CHE CAPSTONE PROJECT 1	-	3.0	1.0	CHE134P,, EEO101	CHE141
5	1		CHE PROFESSIONAL ELECTIVE	*	*	3.0	*	*
5	1	EENV101	ENVIRONMENTAL ENGINEERING	3.0	-	2.0	CHM023,, CHM023L	
<b>Total</b>				<b>13.5+</b>	<b>12.0+</b>	<b>15.0</b>		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	2	CHE132L	CHEMICAL ENGINEERING LABORATORY 2	-	4.5	1.0	CHE131L	
5	2	CHE172	CHEMICAL REACTION ENGINEERING 2	1.5	-	1.0	CHE171	
5	2	CHE182	BIOCHEMICAL ENGINEERING	4.5	-	3.0	BIO181, CHE171	
5	2	CHE200D-2	CHE CAPSTONE PROJECT 2	-	3.0	1.0	CHE200D-1	
5	2		CHE PROFESSIONAL ELECTIVE	*	*	3.0	*	*
5	2	EMGT101	ENGINEERING MANAGEMENT	4.5	-	3.0		
5	2	MSE101	FUNDAMENTALS OF MATERIAL SCIENCE AND ENGINEERING	4.5	-	3.0	CHM142	
<b>Total</b>				<b>15.0+</b>	<b>7.5+</b>	<b>15.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	3	CHE181	ChE LAWS AND ETHICS	3.0	-	2.0	5th Year Standing	
5	3	CHE183F	CHE FIELD TRIPS AND SEMINARS	-	4.5	1.0	5th Year Standing	
5	3	CHE185	INDUSTRIAL WASTE MANAGEMENT AND CONTROL	4.5	-	3.0	CHE182	
5	3	CHE198-1	CHE CORRELATION 2	-	3.0	(1.0)	CHE102, , CHE132, , CHE134P, , CHE172, , CHE182, , EENV101, , MSE101	
5	3	CHE200D-3	CHE CAPSTONE PROJECT 3	-	3.0	1.0	CHE200D-2	
5	3		CHE PROFESSIONAL ELECTIVE	*	*	3.0	*	*
5	3	EMGT102	QUANTITATIVE METHODS IN MANAGEMENT	4.5	-	3.0	EMGT101	
<b>Total</b>				<b>12.0+</b>	<b>10.5+</b>	<b>13.0</b>		

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## ELECTIVES FOR BATCH 2012

Elective Type: CHE TECHNICAL ELECTIVES 2012

Required Units: 9.00

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
		CHE190	RENEWABLE ENERGY TECHNOLOGIES	4.5	-	3.0		
		CHE190-1	ENERGY MANAGEMENT	4.5	-	3.0		
		CHE191	AIR POLLUTION CONTROL	4.5	-	3.0		
		CHE191-1	SOLID WASTE MANAGEMENT	4.5	-	3.0		
		CHE192	SOAPS AND DETERGENT	4.5	-	3.0		
		CHE192-1	FOOD PROCESSING TECHNOLOGIES	4.5	-	3.0		
<b>Total</b>				<b>27.0</b>	<b>0.0</b>	<b>18.0</b>		

**Total Academic Units : 227.00**

- \* See table of Specs for Electives
- \* Add lecture and laboratory hours of chosen Elective courses as reflected in the table of Specs.