

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING (B.S. ChE)

(Curriculum applicable to students who entered as freshmen beginning school year 2015-2016)

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	1	CHM021	GENERAL CHEMISTRY 1	3.0	-	2.0	None	None
1	1	CHM021L	GENERAL CHEMISTRY 1 LABORATORY	-	3.0	1.0	None	CHM021
1	1	DRAW021W	ENGINEERING DRAWING 1 (DRAW)	-	3.0	1.0	None	None
1	1	ENG021	ENGLISH FOR ACADEMIC STUDIES 1	4.5	-	3.0	None	None
1	1	HUM011	LOGIC REASONING WITH CRITICAL THINKING	4.5	-	3.0	None	None
1	1	MATH011	ALGEBRA	4.5	-	3.0	None	None
1	1	NSTP010	OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM	3.0	-	(3.0)	None	None
1	1	PE011	PHYSICAL EDUCATION 1: PHYSICAL FITNESS & GYMNASTICS	-	3.0	(2.0)	None	None
1	1	VE011	VALUES EDUCATION 1	1.5	-	(1.0)	None	None
Total				21.0	9.0	13.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	2	CHM022	GENERAL CHEMISTRY 2	3.0	-	2.0	CHM021	None
1	2	CHM022L	GENERAL CHEMISTRY 2 LABORATORY	-	3.0	1.0	CHM021, CHM021L	CHM022
1	2	DRAW022W	ENGINEERING DRAWING 2 (DRAW)	-	3.0	1.0	DRAW021W	None
1	2	ENG022	ENGLISH FOR ACADEMIC STUDIES 2	4.5	-	3.0	ENG021	None
1	2	HUM016	ADVANCE LOGIC AND REASONING	4.5	-	3.0	HUM011	None
1	2	MATH011-2	ADVANCED ALGEBRA	3.0	-	2.0	MATH011	None
1	2	MATH012	PLANE AND SPHERICAL TRIGONOMETRY	4.5	-	3.0	MATH011	None
1	2	NSTP011-1P	CIVIC WELFARE TRAINING SERVICE	4.0	3.0	(3.0)	NSTP010	None
1	2	PE012	PHYSICAL EDUCATION 2: DANCE & MARTIAL ARTS	-	3.0	(2.0)	PE011	None
1	2	VE012	VALUES EDUCATION 2	1.5	-	(1.0)	VE011	None
Total				25.0	12.0	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	3	CHM023	GENERAL CHEMISTRY 3	3.0	-	2.0	CHM022	None
1	3	CHM023L	GENERAL CHEMISTRY 3 LABORATORY	-	3.0	1.0	CHM022, CHM022L	CHM023
1	3	DRAW023L	COMPUTER-AIDED DRAFTING DRAFTING & DESIGN (LAB)	-	3.0	1.0	DRAW022W	None
1	3	ENG023	ENGLISH FOR ACADEMIC STUDIES 3	4.5	-	3.0	ENG022	None
1	3	MATH013	ANALYTIC GEOMETRY	4.5	-	3.0	MATH012	None
1	3	MATH014	SOLID MENSURATION	3.0	-	2.0	MATH012	None
1	3	MATH021	CALCULUS 1	4.5	-	3.0	MATH012	MATH013
1	3	PE013	PHYSICAL EDUCATION 3: INDIVIDUAL/DUAL SPORTS	-	3.0	(2.0)	None	None
Total				19.5	9.0	15.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	1	CHM130	ANALYTICAL CHEMISTRY	4.5	-	3.0	CHM023, CHM023L	None
2	1	CHM130L	ANALYTICAL CHEMISTRY (LAB)	-	9.0	2.0	CHM023, CHM023L	CHM130
2	1	CS001P	COMPUTER FUNDAMENTALS AND PROGRAMMING 1 (PAIRED)	1.5	3.0	2.0	None	None
2	1	MATH022	CALCULUS 2	4.5	-	3.0	MATH021, MATH013	None
2	1	PHY021	PHYSICS 1	4.5	-	3.0	MATH021	None
2	1	PHY021L	PHYSICS 1 (LAB)	-	3.0	1.0	MATH021	PHY021
Total				15.0	15.0	14.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	2	CHM141	ORGANIC CHEMISTRY 1	3.0	-	2.0	CHM023, CHM023L	None
2	2	CHM141L	ORGANIC CHEMISTRY 1 (LAB)	-	3.0	1.0	CHM023, CHM023L	CHM141
2	2	CS002P	COMPUTER FUNDAMENTALS AND PROGRAMMING 2 (PAIRED)	1.5	3.0	2.0	CS001P	None
2	2	FIL001	KOMUNIKASYON SA AKADEMIKONG FILIPINO	4.5	-	3.0	None	None
2	2	MATH023	CALCULUS 3	4.5	-	3.0	MATH022	None
2	2	PE014	PHYSICAL EDUCATION 4: TEAM SPORTS	-	3.0	(2.0)	PE013	None
2	2	PHY022	PHYSICS 2	4.5	-	3.0	MATH022, PHY021	None
2	2	PHY022L	PHYSICS 2 LABORATORY	-	3.0	1.0	MATH022, PHY021, PHY021L	PHY022
Total				18.0	12.0	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	3	CHM142	ORGANIC CHEMISTRY 2	3.0	-	2.0	CHM141	None
2	3	CHM142L	ORGANIC CHEMISTRY 2 (LAB)	-	3.0	1.0	CHM141, CHM141L	CHM142
2	3	ECE120L	INTRODUCTION TO MATLAB (LAB)	-	3.0	1.0	2nd Year Standing	None
2	3	FIL002	PAGBASA AT PAGSULAT TUNGO SA PANANALIKSIK	4.5	-	3.0	FIL001	None
2	3	MATH025	DIFFERENTIAL EQUATIONS	4.5	-	3.0	MATH023	None
2	3	PHY023	PHYSICS 3	4.5	-	3.0	PHY022	None
2	3	PHY023L	PHYSICS 3 LABORATORY	-	3.0	1.0	PHY022, PHY022L	PHY023
Total				16.5	9.0	14.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	1	BEC198-1	BASIC ENGINEERING CORRELATION 1	-	3.0	(1.0)	CHM023, PHY023	None
3	1	CHE111P-1	CHEMICAL ENGINEERING CALCULATIONS 1 (PAIRED)	3.0	4.5	3.0	CHM130, MATH011-2	None
3	1	CHM155	PHYSICAL CHEMISTRY FOR ENGINEERS 1	4.5	-	3.0	CHM130, CHM130L, MATH022	None
3	1	CHM155L	PHYSICAL CHEMISTRY FOR ENGINEERS 1 (LAB)	-	4.5	1.0	CHM130, CHM130L, MATH022	CHM155
3	1	MATH115	ADVANCED ENGINEERING MATHEMATICS	4.5	-	3.0	MATH025	None
3	1	MEC101	STATICS OF RIGID BODIES	4.5	-	3.0	MATH022, PHY022	None
3	1	SAF101	SAFETY MANAGEMENT	1.5	-	1.0	None	None
Total				18.0	12.0	14.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	2	CHE112P-1	CHEMICAL ENGINEERING CALCULATIONS 2 (PAIRED)	3.0	4.5	3.0	CHE111P-1	None
3	2	CHE123	CHEMICAL ENGINEERING THERMODYNAMICS 1	4.5	-	3.0	CHM155	None
3	2	CHE130	PRINCIPLES OF TRANSPORT PROCESSES	4.5	-	3.0	CHE111P-1, MATH025	None
3	2	CHM156	PHYSICAL CHEMISTRY FOR ENGINEERS 2	4.5	-	3.0	CHM155	None
3	2	CHM156L	PHYSICAL CHEMISTRY FOR ENGINEERS 2 (LAB)	-	4.5	1.0	CHM155, CHM155L	CHM156
3	2	MEC102	DYNAMICS OF RIGID BODIES	3.0	-	2.0	MEC101	None
3	2	VE013	VALUES EDUCATION 3	1.5	-	(1.0)	VE011	None
Total				21.0	9.0	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	BEC198-2	BASIC ENGINEERING CORRELATION 2	-	3.0	(1.0)	MATH115	None
3	3	CHE124	CHEMICAL ENGINEERING THERMODYNAMICS 2	4.5	-	3.0	CHE123	None
3	3	CHE131	MOMENTUM TRANSFER	4.5	-	3.0	CHE130	None
3	3	CHM150	INDUSTRIAL CHEMISTRY	3.0	-	2.0	CHM142	None
3	3	CHM150L	INDUSTRIAL CHEMISTRY (LAB)	-	4.5	1.0	CHM142, CHM142L	CHM150
3	3	MATH110	PROBABILITY AND STATISTICS	4.5	-	3.0	MATH011	None
3	3	SS016	PHILIPPINE HISTORY	4.5	-	3.0	None	None
Total				21.0	7.5	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	4	MATH140	DISCRETE MATHEMATICS	4.5	-	3.0	MATH011	None
3	4	SS014	JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	4.5	-	3.0	None	None
3	4	SS013	ECONOMICS, TAXATION AND AGRARIAN REFORM	4.5	-	3.0	None	None
Total				13.5	0.0	9.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	BIO181	INTRODUCTION TO BIOTECHNOLOGY	4.5	-	3.0	CHM142	None
4	1	CHE133	HEAT AND MASS TRANSFER	4.5	-	3.0	CHE131	None
4	1	CHE150	CHEMICAL PROCESS INDUSTRIES	4.5	-	3.0	CHM142	None
4	1	ENG041L	ENGLISH AT THE WORKPLACE 1	-	3.0	1.0	ENG023	None
4	1	MEC103	MECHANICS OF DEFORMABLE BODIES	4.5	-	3.0	MEC101	None
4	1	RES101P	METHODS OF RESEARCH (PAIRED)	1.5	3.0	2.0	MATH110	None
Total				19.5	6.0	15.0		

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	None
4	2	CHE134P-1	SEPARATION PROCESSES (PAIRED)	3.0	4.5	3.0	CHE133	None
4	2	CHE200L-1	RESEARCH 1- CHE THESIS 1	-	4.5	1.0	RES101P	None
4	2	EENV101	ENVIRONMENTAL ENGINEERING	3.0	-	2.0	CHM023, CHM023L	None
4	2	ENG042L	ENGLISH AT THE WORKPLACE 2	-	3.0	1.0	ENG041L	None
4	2	HUM014	PHILIPPINE LITERATURE IN ENGLISH	4.5	-	3.0	None	None
4	2	MATH160	NUMERICAL METHODS	4.5	-	3.0	MATH025	None
4	2	VE014	VALUES EDUCATION 4	1.5	-	(1.0)	VE013	None
Total				19.5	12.0	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	3	CHE131L	CHEMICAL ENGINEERING LABORATORY 1	-	4.5	1.0	CHE132, CHE133	None
4	3	CHE198	CHE CORRELATION 1	-	3.0	(1.0)	CHE112P-1, CHE124, CHE150, CHM130, CHM142, CHM156, MEC102, MEC103, MATH110	None
4	3	CHE180	PROCESS DYNAMICS AND CONTROL	4.5	-	3.0	MATH115	None
4	3	EECO101	ENGINEERING ECONOMY	4.5	-	3.0	None	None
4	3	ENG043L	ENGLISH AT THE WORKPLACE 3	-	3.0	1.0	ENG042L	None
4	3	SS015	POLITICS, GOVERNANCE AND THE 1987 PHILIPPINE CONSTITUTION	4.5	-	3.0	None	None
4	3	SS017	SOCIETY, CULTURE AND FAMILY LIFE	4.5	-	3.0	None	None
4	3	CHE200L-2	RESEARCH 2 - CHE THESIS 2	-	4.5	1.0	CHE200L-1	None
Total				18.0	15.0	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	4	CHE199R	CHE INDUSTRY IMMERSION	-	20.0	2.0	CHE131L	None
Total				-	20.0	2.0		

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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	None
5	1	CHE141	EQUIPMENT DESIGN	3.0	-	2.0	CHE134P-1	None
5	1	CHE171	CHEMICAL REACTION ENGINEERING 1	4.5	-	3.0	CHE124, MATH115	None
5	1	CHE184L	COMPUTER APPLICATIONS IN CHE	-	4.5	1.0	5th Year Standing	None
5	1	CHE200D-1	CHE CAPSTONE PROJECT 1	-	3.0	1.0	CHE134P-1, EECO101	CHE141
5	1	EE105	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING	3.0	-	2.0	PHY023, PHY023L	None
5	1	EE105L	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING (LAB)	-	4.5	1.0	PHY023, PHY023L	EE105
5	1		CHE PROFESSIONAL ELECTIVE	*	*	3.0	*	*
Total				13.5+	12.0+	15.0		

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	None
5	2	CHE172	CHEMICAL REACTION ENGINEERING 2	1.5	-	1.0	CHE171	None
5	2	CHE181	CHE LAWS AND ETHICS	3.0	-	2.0	5th Year Standing	None
5	2	CHE182	BIOCHEMICAL ENGINEERING	4.5	-	3.0	BIO181, CHE171	None
5	2	CHE200D-2	CHE CAPSTONE PROJECT 2	-	3.0	1.0	CHE200D-1	None
5	2	EMGT101	ENGINEERING MANAGEMENT	4.5	-	3.0	None	None
5	2		CHE PROFESSIONAL ELECTIVE	*	*	3.0	*	*
Total				14.5+	7.5+	14.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	3	CHE183F	CHE FIELD TRIPS AND SEMINARS	-	4.5	1.0	5th Year Standing	None
5	3	CHE185	INDUSTRIAL WASTE MANAGEMENT AND CONTROL	4.5	-	3.0	CHE182	None
5	3	CHE198-1	CHE CORRELATION 2	-	3.0	(1.0)	CHE102, CHE132, CHE134P-1, CHE172, CHE182, EENV101	None
5	3	CHE200D-3	CHE CAPSTONE PROJECT 3	-	3.0	1.0	CHE200D-2	None
5	3	EMGT102	QUANTITATIVE METHODS IN MANAGEMENT	4.5	-	3.0	EMGT101	None
5	3	MSE101	FUNDAMENTALS OF MATL SCE AND ENGG	4.5	-	3.0	CHM142	None
5	3		CHE PROFESSIONAL ELECTIVE	*	*	3.0	*	*
Total				13.5+	10.5+	14.0		

Total Academic Units: 229

Total Non-academic Units: 22

* See table of specifications for Electives

+ Add Lecture and Laboratory Hours of chosen Elective courses as reflected in the table of specifications

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CHE PROFESSIONAL ELECTIVE COURSES

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
		CHE190	RENEWABLE ENERGY TECHNOLOGIES	4.5	-	3.0	5th Year Standing	None
		CHE190-1	ENERGY MANAGEMENT	4.5	-	3.0	5th Year Standing	None
		CHE191	AIR POLLUTION CONTROL	4.5	-	3.0	5th Year Standing	None
		CHE191-1	SOLID WASTE MANAGEMENT	4.5	-	3.0	5th Year Standing	None
		CHE192	SOAPS AND DETERGENTS	4.5	-	3.0	5th Year Standing	None
		CHE192-1	FOOD PROCESSING TECHNOLOGIES	4.5	-	3.0	5th Year Standing	None
		CHE193	SPECIAL TOPICS IN CHEMICAL ENGINEERING	4.5		3.0	5th Year Standing	None

NOTE: Elective courses offering per term will depend on the availability of instructor and compliance of prerequisite courses for specific elective course.