

Ateneo de Davao University
 School of Engineering and Architecture
 Curriculum Effective 2019 - 2020
BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Course#	Description	Units		Prof	Pre-requisites
		Pay	Credit		
1st Year, 1st Semester					
ASF 1102	NATIONAL SERVICE TRAINING PROGRAM - CIVIC WELFARE	0.0	3.0		
ASF 1000	ARRUPE SOCIAL FORMATION 0	2.0	2.0		
ASF 1101	ARRUPE SOCIAL FORMATION 1	2.0	2.0		
GE 1105	UNDERSTANDING THE SELF	3.0	3.0		
GE 1106	PURPOSIVE COMMUNICATION	3.0	3.0		
Philo 1000	PHILOSOPHY	3.0	3.0		
GE 1108	MATHEMATICS IN THE MODERN WORLD	3.0	3.0		
PE 1114	PATH-FIT I	2.0	2.0		
Chem 1035	CHEMISTRY FOR ENGINEERS LEC	3.0	3.0		
Chem 1036	CHEMISTRY FOR ENGINEERS LAB	3.0	1.0		
ESM 1030	ENGINEERING CALCULUS 1 (DIFFERENTIAL CALCULUS)	5.0	5.0		
ESM 1000	FUNDAMENTALS OF ENGINEERING MATHEMATICS	3.0	0.0		
Total Number of Units			30.0		
1st Year, 2nd Semester					
GE 1210	READINGS IN PHILIPPINE HISTORY	3.0	3.0		
Theo 1000	THEOLOGY	3.0	3.0		
ASF 1203	NATIONAL SERVICE TRAINING PROGRAM - CIVIC WELFARE	0.0	3.0		ASF 1102
PE 1215	PATH-FIT II	2.0	2.0		PE 1114
ESM 1031	ENGINEERING CALCULUS 2 (INTEGRAL CALCULUS)	5.0	5.0		ESM 1030
CHEM 1045	ANALYTICAL CHEMISTRY FOR ENGINEERS LEC	4.0	4.0		Chem 1035, Chem 1036
CHEM 1046	ANALYTICAL CHEMISTRY FOR ENGINEERS LAB	3.0	1.0		Chem 1035, Chem 1036
ESM 2039	COMPUTER FUNDAMENTALS & PROGRAMMING A	3.0	1.0		
PHYS 1261	PHYSICS FOR ENGINEERS LEC	3.0	3.0		ESM 1030
PHYS 1262	PHYSICS FOR ENGINEERS LAB	6.0	2.0		ESM 1030
Total Number of Units			27.0		
2nd Year, 1st Semester					
CHEM 2055	ORGANIC CHEMISTRY FOR ENGINEERS LEC	4.0	4.0		CHEM 1045, CHEM 1046
CHEM 2056	ORGANIC CHEMISTRY FOR ENGINEERS LAB	3.0	1.0		CHEM 1045, CHEM 1046
CHE 2130	CHEMICAL ENGINEERING CALCULATIONS	5.0	3.0		CHEM 1045, CHEM 1046
ESM 2038	ENGINEERING MECHANICS FOR CHE	5.0	5.0		ESM 1031, PHYS 1261, PHYS 1262
ESM 2034	DIFFERENTIAL EQUATIONS	3.0	3.0		ESM 1031
ESM 2035	ENGINEERING DATA ANALYSIS	3.0	3.0		ESM 1030
GE 1109	ETHICS	3.0	3.0		
GE 1107	ART APPRECIATION	3.0	3.0		
PE 2116	PATH-FIT III	2.0	2.0		PE 1114
Total Number of Units			27.0		
2nd Year, 2nd Semester					
GE 1211	THE CONTEMPORARY WORLD	3.0	3.0		
GE 1213	LIFE AND WORKS OF RIZAL	3.0	3.0		
GE 1212	SCIENCE, TECHNOLOGY AND SOCIETY	3.0	3.0		
PE 2217	PATH-FIT IV	2.0	2.0		PE 1114
CHE 2231	PHYSICAL CHEMISTRY FOR ENGINEERS 1 LEC	2.0	2.0		ESM 1031, CHEM 1045, CHEM 1046
CHE 2232	PHYSICAL CHEMISTRY FOR ENGINEERS 1 LAB	3.0	1.0		ESM 1031, CHEM 1045, CHEM 1046
CHE 2233	MOMENTUM TRANSFER	5.0	3.0		ESM 2034, CHE 2130
CHE 2234	FUNDAMENTALS OF MATERIALS SCIENCE & ENGINEERING	3.0	3.0		CHEM 2055, CHEM 2056
CHE 2235	ADVANCED ENGINEERING MATHEMATICS IN CHEMICAL	3.0	3.0		ESM 2034
CHE 2236	COMPUTER APPLICATIONS IN CHE	3.0	1.0		ESM 2039

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Total Number of Units			24.0		
3rd Year, 1st Semester					
CHE 3138	PHYSICAL CHEMISTRY FOR ENGINEERS 2 LEC	2.0	2.0		CHE 2231, CHE 2232
CHE 3139	PHYSICAL CHEMISTRY FOR ENGINEERS 2 LAB	3.0	1.0		CHE 2231, CHE 2232
CHE 3140	HEAT AND MASS TRANSFER	6.0	4.0		CHE 2233
CHE 3141	CHE THERMODYNAMICS	5.0	3.0		CHE 2130, CHE 2231, CHE 2232
CHE 3142	METHODS OF RESEARCH	2.0	2.0		ESM 2035, CHE 2130, CHE 2231, CHE 2232
EE 3168	BASIC ELECTRICAL & ELECTRONICS ENGINEERING LEC	2.0	2.0		ESM 1031, PHYS 1261, PHYS 1262
EE 3169	BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB	3.0	1.0		ESM 1031, PHYS 1261, PHYS 1262
GE 3118	ELECTIVE 1	0.0	3.0		
ESM 3043	ENGINEERING ECONOMICS	3.0	3.0		ESM 2035
CHE 3137	ENVIRONMENTAL SCIENCE & ENGINEERING	3.0	3.0		Chem 1035, Chem 1036
Total Number of Units			24.0		
3rd Year, 2nd Semester					
GE 3219	ELECTIVE 2	0.0	3.0		
CHE 3243	CHEMICAL REACTION ENGINEERING	0.0	4.0		CHE 2235, CHE 3138, CHE 3139, CHE 3140
CHE 3244	CHEMICAL ENGINEERING LAB 1	0.0	1.0		CHE 3140
CHE 3245	PARTICLE TECHNOLOGY	0.0	3.0		CHE 2233
CHE 3246	SOLUTION THERMODYNAMICS	0.0	3.0		CHE 2235, CHE 2236, CHE 3141
CHE 3247	SEPARATION PROCESS	0.0	3.0		CHE 3140, CHE 3141
CHE 3248	CHEMICAL PROCESS INDUSTRIES	0.0	4.0		CHEM 2055, CHEM 2056, CHE 2130
CHE 3249	TRACK SPECIALIZATION 1	0.0	3.0		
Total Number of Units			24.0		
3rd Year, Summer					
CHE 3350	CHEMICAL ENGINEERING IMMERSION	0.0	2.0		CHE 3243, CHE 3244, CHE 3248
Total Number of Units			2.0		
4th Year, 1st Semester					
CHE 4151	CHEMICAL ENGINEERING DESIGN 1	0.0	2.0		CHE 3243, CHE 3245, CHE 3247
CHE 4152	CHEMICAL ENGINEERING LAB 2	0.0	1.0		CHE 3244
CHE 4153	CHEMICAL ENGINEERING LAWS & ETHICS	0.0	1.0		GE 1109, CHE 3248
CHE 4154	PROJECT STUDY	0.0	2.0		CHE 3142
CHE 4155	PROCESS SAFETY	0.0	1.0		CHE 3244
CHE 4156	TRACK SPECIALIZATION 2	0.0	3.0		CHE 3249
GE 4120	ELECTIVE 3	3.0	3.0		
ESM 3045	ENGINEERING MANAGEMENT	2.0	2.0		ESM 3043
ESM 2036	COMPUTER-AIDED DRAFTING	3.0	1.0		
TECH 1001	TECHNOPRENEURSHIP 101	3.0	3.0		ESM 3043
Total Number of Units			19.0		
4th Year, 2nd Semester					
ASF 4204	SENIORS' INTEGRATION PROGRAM	0.0	2.0		
CHE 4257	CHEMICAL ENGINEERING DESIGN 2	0.0	3.0		CHE 4151
CHE 4258	BIOCHEMICAL ENGINEERING	0.0	3.0		CHEM 2055, CHEM 2056, CHE 3243
CHE 4259	PROCESS DYNAMICS & CONTROL LEC	0.0	2.0		CHE 2235
CHE 4260	PROCESS DYNAMICS & CONTROL LAB	0.0	1.0		CHE 2235
CHE 4261	INDUSTRIAL WASTE MANAGEMENT & CONTROL	0.0	3.0		CHE 3245, CHE 3137

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CHE 4262	CHEMICAL PROCESS LAB	0.0	1.0		CHE 4151
CHE 4263	FIELD TRIPS & SEMINARS	0.0	1.0		CHE 4151
CHE 4264	TRACK SPECIALIZATION 3	0.0	3.0		CHE 4156
Total Number of Units			<u>19.0</u>		