

## Study Plan for ID 603 XXX XX23 Environmental Chemistry (129 Credit)

### First year

Semester 1 (Aug-Dec 2560)				Semester 2 (Jan-May 2561)			
Code	Subject	Credits	Condition	Code	Subject	Credits	Condition
2301107	CALCULUS I	3	-	2301108	CALCULUS II	3	PRER 2301107
2301170	COMP PROG	3	-	2302102	GEN CHEM II	3	PRER 2302101 OR C.F.
2302101	GEN CHEM I	3	-	2303109	GENERAL BIOLOGY	3	-
2302103	GEN CHEM LAB	1	-	2303110	GEN BIO LAB	1	-
5503111	ENG COMM SCI I	3	-	2304151	ESSENTIAL PHYS	3	-
xxxxxxx	Gen Ed (Interdisciplinary)	3		2304191	PHYSICS LAB FOR CHEM	1	-
xxxxxxx	Gen Ed (Humanities)	3		5503122	ENG COMM SCI II	3	PRER 5500181 OR 5503111
				xxxxxxx	Gen Ed (Social Sciences)	3	
	<b>Total</b>	<b>19</b>			<b>Total</b>	<b>20</b>	

### Second year

Semester 1 (Aug-Dec 2561)				Semester 2 (Jan-May 2562)			
Code	Subject	Credits	Condition	Code	Subject	Credits	Condition
2301286	PROBABILITY AND STATISTICS	3	PRER 2301107 OR 2301117	2302203	ORG CHEM LAB	1	PRER 2302103
2302104	CHEM HAZ MGT	3	-	2302206	ANAL CHEM II	3	PRER 2302205 OR C.F.
2302204	INORG CHEM	3	PRER 2302102	2302232	PHYS CHEM II	3	PRER 2302231 OR C.F.
2302205	ANAL CHEM I	3	PRER 2302102	2302272	ORG CHEM II	3	PRER 2302271
2302231	PHYS CHEM I	3	PRER 2302102 OR 2302112 OR 2302105 OR C.F.	2302305	PRAC CHEM	1	PRER 2302103 AND 2302205 OR C.F.
2302271	ORG CHEM I	3	PRER 2302112 OR 2302102 OR C.F.	2302393	CHEM INFO TECH	2	-
5503213	COMMUNICATION AND PRESENTATION SKILL FOR SCIENCE	3	PRER 5503122	2308351	ENVIRONMENTAL SCIENCE I	3	Second Year Standing
				xxxxxxx	Language:Non-native	3	
	<b>Total</b>	<b>21</b>			<b>Total</b>	<b>19</b>	

### Third year

Semester 1 (Aug-Dec 2562)				Semester 2 (Jan-May 2563)			
Code	Subject	Credits	Condition	Code	Subject	Credits	Condition
2302303	SPECT CHEM	2	PRER 2302202 OR 2302272	2302307	INTER SCI SOC PROJ	4	COREQ 2302399
2302399	PROJECT PROPOSAL	1	-	2302315	ENVIRONMENTAL CHEMISTRY LAB	2	PRER 2302305
2302442	ADVANCED ANALYTICAL TECHNIQUES	3	PRER 2302206 OR 2302244	2302316	ENVIRONMENTAL ECONOMIC FOR SCIENTISTS	3	-
2308452	ENVIRONMENTAL SCIENCE II	3	PRER 2308351 OR C.F.	xxxxxxx	Elective	3	
3404107	ENVIRONMENTAL LAW	3	-	xxxxxxx	Elective	3	
xxxxxxx	Gen Ed Course on the Faculty List	3		xxxxxxx	Free Elective	3	
xxxxxxx	Gen Ed (Science & Math)	3					
	<b>Total</b>	<b>18</b>			<b>Total</b>	<b>18</b>	

### Fourth year

Semester 1 (Aug-Dec 2563)				Semester 2 (Jan-May 2564)			
Code	Subject	Credits	Condition	Code	Subject	Credits	Condition
2302402	APP CHEM PROJ	2		2302301	SEMINAR	1	-
				2302404	CURR PROB APP CHEM	2	-
				xxxxxxx	Elective	3	
				xxxxxxx	Elective	3	
				xxxxxxx	Free Elective	3	
	<b>Total</b>	<b>2</b>			<b>Total</b>	<b>12</b>	

**Remark:** Gen Ed Course on the Faculty List = All courses of Chulalongkorn University General Education Center, which taught in English (International Study Program).

ทุกรายวิชาในหลักสูตรศึกษาทั่วไป จุฬาลงกรณ์มหาวิทยาลัย ที่เปิดการเรียนการสอนเป็นภาษาอังกฤษ (ระบบทวิภาค-นานาชาติ)