

# KİMYA ÖĞRETMENLİĞİ LİSANS PROGRAMI

## FIRST YEAR

First Semester				Second Semester			
Code	Course Name	Credit	ECTS	Code	Course Name	Credit	ECTS
2340105	General Chemistry I	(4-0)4	4	2340106	General Chemistry II	(4-0)4	4
2340115	General Chemistry Laboratory I	(0-4)2	2	2340116	General Chemistry Laboratory II	(0-4)2	2
2360117	Calculus I	(4-2)5	7.5	2360118	Calculus II	(4-2)5	7.5
2300111	Physics I (Mechanics)	(4-2)5	7.5	2300112	Physics II (Electrics and Mag)	(4-2)5	7.5
6390101	English for Academic Purposes I	(4-0)4	6	6390102	English for Academic Purposes II	(4-0)4	6
				9010100	Introduction to Information Technologies and Applications	NC	1
				3120100	Career Planning		

## SECOND YEAR

Third Semester				Fourth Semester			
Code	Course Name	Credit	ECTS	Code	Course Name	Credit	ECTS
2340221	Analytical Chemistry I	(4-0)4	7	2340234	Organic Chemistry I	(4-0)4	7
2340223	Analytical Chemistry Lab I	(0-6)3	5	2340236	Organic chemistry Lab I	(0-4)2	4
2340233	Introduction to Organic Chemistry	(2-0)2	4	2340252	Physical Chemistry I	(4-0)4	7
2340257	Mathematics for Chemists	(4-0)4	7	2340254	Physical Chemistry Lab I	(0-4)2	6
4540200	Introduction to Education	(3-0)3	5		<b>Restricted Elective I (MSE210)</b>		
2402201	Principles of Kemal Atatürk I	NC	2	6390211	Academic Oral Presentation Skills	(3-0)3	4
				2402202	Principles of Kemal Atatürk II	NC	2

## THIRD YEAR

Fifth Semester				Sixth Semester			
Code	Course Name	Credit	ECTS	Code	Course Name	Credit	ECTS
2340301	Organic Chemistry II	(4-0)4	7	2340322	Analytical Chemistry II	(4-0)4	7
2340361	Inorganic Chemistry I	(4-0)4	7	2340324	Analytical Chemistry Lab II	(0-6)3	4
	<b>Restricted Elective II (MSE326)</b>			2340353	Physical Chemistry II	(4-0)4	7
6420305	Oral Communication	(2-0)2	3	4600305	Assessment of Learning in Science and Mathematics	(3-0)3	6
	Elective			4600310	Methods of Secondary Science Teaching I	(2-2)3	5
	Departmental elective			6390311	Advanced Communication Skills	(3-0)3	4
				6420306	Written Expression	(2-0)2	3

## FOURTH YEAR

Seventh Semester				Eighth Semester			
Code	Course Name	Credit	ECTS	Code	Course Name	Credit	ECTS
4600411	Methods of Secondary Science Teaching II	(2-2)3	5	4600410	Practice Teaching II	(2-6)5	10
	<b>Restricted Elective III (MSE405)</b>			4540424	Guidance	(3-0)3	5
4600409	Practice Teaching I	(2-6)5	10		<b>Restricted Elective V (MSE429)</b>		
	<b>Restricted Elective IV (MSE329)</b>				Restricted Elective VI*		
4540304	Classroom Management	(2-2)3	5		Departmental Elective		
	Elective						

Departmental, restricted and free electives must be at least 3 METU credit and 5 ECTS credit each.

**Restricted elective** MSE 210, MSE 326, MSE 405, MSE 329, MSE 429 and \*(2340362 Inorganic Chemistry II or 2340350 Quantum Chemistry)