

FIVE-YEAR PROGRAMS
CHEMISTRY EDUCATION PROGRAM

FIRST YEAR

First Semester				Second Semester			
CHEM	105	General Chemistry I	(4-4)6	CHEM	106	General Chemistry	(4-4)6
ENG	101	Development of Reading and Writing Skills I	(4-0)4	ENG	102	Development of Reading and Writing Skills II	(4-0)4
MATH	117	Calculus I	(4-2)5	IS	100	Introduction to Information Technologies and Applications	NC
PHYS	111	Physics I (Mechanics)	(4-2)5	MATH	118	Calculus II	(4-2)5
				PHYS	112	Physics II (El. And Magn.)	(4-2)5

SECOND YEAR

Third Semester				Fourth Semester			
CHEM	200	Colloquium in Chemistry I	(1-0)0	CHEM	234	Organic Chemistry I	(4-0)4
CHEM	221	Analytical Chemistry I	(4-0)4	CHEM	236	Organic Chemistry Lab.I	(0-4)2
CHEM	223	Analytical Chemistry	(0-6)3	CHEM	252	Physical Chemistry I	(4-0)4
CHEM	233	Introduction to Organic Chemistry	(2-0)2	CHEM	254	Physical Chemistry Lab. I	(0-4)2
CHEM	257	Mathematics for Chemists	(4-0)4	EDS	220	Educational Psychology	(3-0)3
EDS	200	Introduction to Education	(3-0)3	ENG	211	Academic Oral Presentation Skills	(3-0)3
HIST	2201	Principles of Kemal Atatürk I	NC	HIST	2202	Principles of Kemal Atatürk II	NC

THIRD YEAR

Fifth Semester				Sixth Semester			
CHEM	301	Organic Chemistry II	(4-0)4	CHEM	322	Analytical Chemistry II	(4-0)4
CHEM	303	Organic Chemistry Lab. II	(0-6)3	CHEM	324	Analytical Chem. Lab. II	(0-6)3
CHEM	353	Physical Chemistry II	(4-0)4	ENG	311	Advanced Communication Skills	(3-0)3
CHEM	355	Physical Chemistry Lab.II	(0-4)2	SSME	302	Measurement and Evaluation in Science/Mathematics Education	(3-0)3
SSME	301	Curriculum Development & Instruction in Science/Mathematics Education	(3-0)3	SSME	309	Theories and Approaches in Teaching and Learning of Science/Mathematics	(3-0)3
TURK	305	Oral Communication	(2-0)2	TURK	306	Written Communication	(2-0)2

FOURTH YEAR

Seventh Semester				Eighth Semester			
CHEM	400	Colloquium in Chemistry II (1-0)0		CHEM	362	Inorganic Chemistry II	(4-0)4
CHEM	361	Inorganic Chemistry I	(4-0)4	SSME	403	Laboratory Experiments in Science Education	(3-0)3
SSME	400	Computer Applications in Science/Mathematics Education	(2-2)3	SSME	512	Methods of Science/Mathematics Teaching II	(2-2)3
SSME	511	Methods of Science/Mathematics Teaching I	(2-2)3	SSME	518	Instructional Technology and Material Development	(2-2)3
Elective I			(3-0)3	Elective III			(3-0)3
Elective II			(3-0)3				

FIFTH YEAR

Ninth Semester				Tenth Semester			
SSME	534	School Experience in Science/ Mathematics Education	(1-4)3	SSME	544	Practice Teaching in Science/ Mathematics Education	(2-6)5
EDS	416	Turkish Educational System and School Management	(3-0)3	SSME	555	Research Projects in Science/ Mathematics Education	(2-2)3
EDS	424	Guidance	(3-0)3	EDS	304	Classroom Management	(2-2)3
Restricted Elective I*			(3-0)3	Restricted Elective II*			(3-0)3
Elective IV			(3-0)3				

*Restricted electives: Courses offered by the Chemistry Department are defined as restricted elective.