



Karabük Üniversitesi

Faculty of Sciences

Chemistry

Kimya

1.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
AIT181	Atatürk S Principles and History Of Revolutions I	2+0+0	Compulsory	2
FIZ185	General Physics I	4+0+0	Compulsory	4
FIZ189	Physics Lab. I	0+0+3	Compulsory	2
KIM105	General Chemistry Lab. I	1+0+3	Compulsory	4
KIM111	General Chemistry I	4+2+0	Compulsory	8
MAT189	Mathematics I	4+0+0	Compulsory	4
TBT181	Usage Of Basic Computer Technologies	1+2+0	Compulsory	2
TUR181	Turkish Language I	2+0+0	Compulsory	2
YDL183	Foreign Language I	2+0+0	Compulsory	2
ÜSD1G	Elective Course	-	Elective	0
Total ECTS				30

2.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
AIT182	Atatürk S Principles and History Of Revolutions II	2+0+0	Compulsory	2
FIZ186	General Physics II	4+0+0	Compulsory	4
FIZ190	Physics Lab. II	0+0+3	Compulsory	2
KIM112	General Chemistry II	4+2+0	Compulsory	8
KIM114	General Chemistry Lab. II	1+0+3	Compulsory	4
MAT188	Mathematics II	4+0+0	Compulsory	4
TBT182	Basic Computer Sciences	1+2+0	Compulsory	2
TUR182	Turkish Language II	2+0+0	Compulsory	2
YDL184	Foreign Language II	2+0+0	Compulsory	2
ÜSD1B	Elective Course	-	Elective	0
Total ECTS				30

3.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
KIM241	Analytical Chemistry I	4+0+0	Compulsory	6
KIM243	Analytical Chemistry Lab. I	1+0+3	Compulsory	3
KIM251	Inorganic Chemistry I	4+0+0	Compulsory	6
KIM253	Inorganic Chemistry Lab I.	1+0+3	Compulsory	3
KIM261	Organic Chemistry I	4+0+0	Compulsory	6
KIM265	Mathematics For Chemists	4+0+0	Compulsory	4
FRM2G	Formation Elective Courses	-	Elective	7
SEÇ201	Elective GI	-	Elective	2
ÜSD2G	Elective Course	-	Elective	0
Total ECTS				37

DEG201	Values Education	2+0+0	Elective	2
FRM201	Introduction to Education	3+0+0	Elective	4
FRM203	Classroom Management	2+0+0	Elective	3
KIM271	CHEMISTRY OF NATURE	3+0+0	Elective	2

4.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
KIM242	Analytical Chemistry II	4+0+0	Compulsory	6
KIM244	Analytical Chemistry Lab. II	1+0+3	Compulsory	3
KIM252	Inorganic Chemistry II	4+0+0	Compulsory	6
KIM254	Inorganic Chemistry Lab II	1+0+2	Compulsory	3
KIM262	Organic Chemistry II	4+0+0	Compulsory	6
KIM264	Organic Chemistry Lab. I	1+0+3	Compulsory	3
FRM2B	Formation Elective Courses	-	Elective	8
SEÇ202	Elective BI	-	Elective	3
ÜSD2B	Elective Course	-	Elective	0
Total ECTS				38

FRM202	Educational Psychology	3+0+0	Elective	4
FRM204	Guidance and Special Education	3+0+0	Elective	4

KIM272	Molecular Symmetry	3+0+0	Elective	3
KIM274	Nutritional Chemistry	3+0+0	Elective	3
KIM276	Separation Techniques In Chemistry	3+0+0	Elective	3
KIM278	Environmental Chemistry	3+0+0	Elective	3

5.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
KIM329	Analytical Chemistry I	4+0+0	Compulsory	6
KIM365	Organic Chemistry III	4+0+0	Compulsory	6
KIM367	Organic Chemistry Lab. II	1+0+3	Compulsory	3
KIM371	Physical Chemistry I	4+0+0	Compulsory	6
KIM373	Physical Chemistry Lab. I	1+0+3	Compulsory	3
FRM3G	Formation Elective Courses	-	Elective	4
SEÇ301	Elective GII	-	Elective	6
Total ECTS				34

FRM301	Measurement and Evaluation in Education	3+0+0	Elective	4
FRM303	Teaching Principles and Methods	3+0+0	Elective	4
KIM325	Stoichiometry	3+0+0	Elective	3
KIM327	Nonmetallic Chemistry	3+0+0	Elective	3
KIM337	Coordination Chemistry	3+0+0	Elective	3
KIM339	Complexometric Titrations	3+0+0	Elective	3
KIM349	Ceramic Chemistry	3+0+0	Elective	3
KIM375	Quantum Chemistry	3+0+0	Elective	3
KIM377	Chemical Kinetics	3+0+0	Elective	3
KIM379	Name Reaction In Organic Chemistry	3+0+0	Elective	3

6.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
KIM370	Inorganic Chemistry III	4+0+0	Compulsory	6
KIM372	Physical Chemistry II	4+0+0	Compulsory	6
KIM374	Physical Chemistry Lab. II	1+0+3	Compulsory	3
KIM376	Polymer Chemistry	4+0+0	Compulsory	6
FRM3B	Formation Elective Courses	-	Elective	7
SEÇ302	Elective BII	-	Elective	9
Total ECTS				37

FRM302	Instructional Technology	2+0+0	Elective	3
FRM304	Special Teaching Methods	3+0+0	Elective	4
KIM328	Metal Chemistry	3+0+0	Elective	3
KIM330	Substitution Reactions in Organic Chemistry	3+0+0	Elective	3
KIM338	Biologically Active Compounds Chemistry	3+0+0	Elective	3
KIM340	Textile and Dyes Chemistry	3+0+0	Elective	3
KIM378	Colloidal Chemistry	3+0+0	Elective	3
KIM380	Surface Active Ingredients	3+0+0	Elective	3
KIM390	Catalysis and Adsorption	3+0+0	Elective	3
KIM396	Electroanalytical Chemistry	3+0+0	Elective	3

7.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
KIM405	Physical Chemistry	4+0+0	Compulsory	6
KIM407	Biochemistry I	4+0+0	Compulsory	6
KIM417	Industrial Chemistry I	4+0+0	Compulsory	4
KIM419	Instrumental Analysis I	4+0+0	Compulsory	4
KIM427	Chemistry Research Project I	0+2+0	Compulsory	3
KIM429	Training	0+0+0	Compulsory	2
FRM4G	Formation Elective Courses	-	Elective	10
SEÇ401	Elective GIII	-	Elective	3
SEÇ403	SOCIAL ELECTIVE I	-	Elective	2
Total ECTS				40

ATU403	Academic Turkish	2+0+0	Elective	2
FRM400	Teaching Practice	1+8+0	Elective	10
KIM409	Nanostructures and Nanomaterials	3+0+0	Elective	3
KIM435	Material Chemistry	3+0+0	Elective	3
KIM437	Reaction Mechanisms in Organic Chemistry	3+0+0	Elective	3
KIM439	Heterocyclic Compounds Chemistry	3+0+0	Elective	3
KIM445	Organometallic Compounds Chemistry	3+0+0	Elective	3
KIM447	Foreign Language for Profession I	2+0+0	Elective	2

KIM449	Ethics in Science	2+0+0	Elective	2
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8.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
KIM406	Instrumental Analysis II	2+2+0	Compulsory	4
KIM408	Biochemistry II	4+0+0	Compulsory	6
KIM410	Biochemistry Lab.	1+0+3	Compulsory	3
KIM418	Industrial Chemistry II	4+0+0	Compulsory	5
KIM420	Industrial Chemistry Lab. I	1+0+3	Compulsory	4
KIM428	Chemistry Research Project II	0+2+0	Compulsory	3
FRM4B	Formation Elective Courses	-	Elective	10
SEÇ402	Elective Course	-	Elective	3
SEÇ404	SOCIAL ELECTIVE II	-	Elective	2
			Total ECTS	40
FRM400	Teaching Practice	1+8+0	Elective	10
KIM414	Cosmetics Chemistry	3+0+0	Elective	3
KIM430	Electrochemistry	3+0+0	Elective	3
KIM436	Spectroscopic Methods in Organic Chemistry	3+0+0	Elective	3
KIM438	Technology of Polymers	3+0+0	Elective	3
KIM440	Organic Dying Materials Chemistry	3+0+0	Elective	3
KIM448	Foreign Language for Profession II	2+0+0	Elective	2
KIM450	Professional Vision	2+0+0	Elective	2
KIM454	Nuclear Chemistry	3+0+0	Elective	3
ELECTIVE COURSES POOL				
KIM000	English Preparatory Year	0+0+0	Compulsory	0