



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
KIM125	General Chemistry I	4+0+0	Compulsory	8
KIM127	General Chemistry Lab. I	0+0+3	Compulsory	4
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
KIM126	General Chemistry II	4+0+0	Compulsory	8
KIM128	General Chemistry Lab. II	0+0+3	Compulsory	3
MAT188	Mathematics II	4+0+0	Compulsory	4
TBT182	Basic Computer Sciences	2+2+0	Compulsory	3
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
KIM231	Inorganic Chemistry I	4+0+0	Compulsory	7
KIM233	Inorganic Chemistry Lab I.	0+0+4	Compulsory	4
KIM235	Analytical Chemistry I	4+0+0	Compulsory	7
KIM237	Analytical Chemistry Lab. I	0+0+4	Compulsory	4
KIM239	Mathematics For Chemists	2+0+0	Compulsory	4
FRM2G	Formation Elective Courses	-	Elective	7
SEÇ201	Elective Course	-	Elective	4
ÜSD2G	Elective Course	-	Elective	0
Total ECTS				37

Course Groups				
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
KIM281	Chemistry Technologies	2+0+0	Elective	2
KIM283	Introduction To Symmetry and Group Theory	2+0+0	Elective	2
KIM291	Environmental Chemistry	2+0+0	Elective	2

4.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
KIM230	Inorganic Chemistry II	4+0+0	Compulsory	8
KIM232	Inorganic Chemistry Lab II	0+0+4	Compulsory	4
KIM234	Analytical Chemistry II	4+0+0	Compulsory	8
KIM236	Analytical Chemistry Lab. II	0+0+4	Compulsory	4
FRM2B	Formation Elective Courses	-	Elective	8
SEÇ202	Elective Course	-	Elective	6
ÜSD2B	Elective Course	-	Elective	0
Total ECTS				38

Course Groups				
FRM202	Educational Psychology	3+0+0	Elective	4
FRM204	Guidance and Special Education	3+0+0	Elective	4
KIM280	Nutritional Chemistry	2+0+0	Elective	2

KIM282	Introduction To Organic Chemistry	2+0+0	Elective	2
KIM284	Vision For Profession	2+0+0	Elective	2
KIM292	Seperation Techniques In Chemistry	2+0+0	Elective	2

5.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
KIM351	Organic Chemistry I	4+0+0	Compulsory	8
KIM353	Organic Chemistry Lab. I	0+0+4	Compulsory	4
KIM355	Physical Chemistry I	4+0+0	Compulsory	8
KIM357	Physical Chemistry Lab. I	0+0+4	Compulsory	4
FRM3G	Formation Elective Courses	-	Elective	4
SEÇ301	Elective Course	-	Elective	6
Total ECTS				34
Course Groups				
ATU301	Academic Turkish	2+0+0	Elective	2
FRM301	Measurement and Evaluation in Education	3+0+0	Elective	4
FRM303	Teaching Principles and Methods	3+0+0	Elective	4
KIM391	Ceramic Chemistry	2+0+0	Elective	2
KIM393	Introduction To Polymer Chemistry	2+0+0	Elective	2
KIM395	Quantum Chemistry	2+0+0	Elective	2
KIM397	Occupational Health and Safety	2+0+0	Elective	2

6.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
KIM350	Organic Chemistry II	4+0+0	Compulsory	8
KIM352	Organic Chemistry Lab. II	0+0+4	Compulsory	4
KIM354	Physical Chemistry II	4+0+0	Compulsory	8
KIM356	Physical Chemistry Lab. II	0+0+4	Compulsory	4
FRM3B	Formation Elective Courses	-	Elective	7
SEÇ302	Elective Course	-	Elective	6
Total ECTS				37
Course Groups				
FRM302	Instructional Technology	2+0+0	Elective	3
FRM304	Special Teaching Methods	3+0+0	Elective	4
KIM386	Textile and Dyestuffs Chemistry	2+0+0	Elective	2
KIM392	Chemical Kinetics	2+0+0	Elective	2
KIM394	Surface Active Ingredients	2+0+0	Elective	2
KIM398	Polymer Technology	2+0+0	Elective	2

7.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
KIM471	Biochemistry	4+0+0	Compulsory	5
KIM473	Industrial Chemistry I	4+0+0	Compulsory	6
KIM475	Industrial Chemistry Lab. I	0+0+4	Compulsory	5
KIM477	Chemistry Research Project I	0+2+0	Compulsory	4
KIM479	Instrumental Analysis I	3+0+0	Compulsory	4
FRM4G	Formation Elective Courses	-	Elective	10
SEÇ401	Elective Course	-	Elective	6
Total ECTS				40
Course Groups				
FRM400	Teaching Practice	1+8+0	Elective	10
KIM481	Coordination Chemistry	2+0+0	Elective	2
KIM483	Material Chemistry	2+0+0	Elective	2
KIM485	Introduction To Organic Reaction Mechanism I	2+0+0	Elective	2
KIM487	Nano Science I	2+0+0	Elective	2

8.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
KIM470	Biochemistry II	4+0+0	Compulsory	5
KIM472	Biochemistry Lab.	0+0+4	Compulsory	5
KIM474	Industrial Chemistry II	4+0+0	Compulsory	6
KIM476	Instrumental Analysis II	3+0+0	Compulsory	4
KIM478	Chemistry Research Project II	0+2+0	Compulsory	4
FRM4B	Formation Elective Courses	-	Elective	10
SEÇ402	Elective Course	-	Elective	6
Total ECTS				40
Course Groups				
FRM400	Teaching Practice	1+8+0	Elective	10
KIM482	Selected Topics In Spectroscopy	2+0+0	Elective	2

KIM484	Introduction To Organic Reaction Mechanism II	2+0+0	Elective	2
KIM486	Metal Chemistry	2+0+0	Elective	2
KIM488	Introduction To Electro Chemistry	2+0+0	Elective	2
ELECTIVE COURSES POOL				
KIM000	English Preparatory Year	0+0+0	Compulsory	0