

Courses

This table aims to give detailed information related to the subjects the students need to take every semester

More information: <https://chemistryeducation.uui.ac.id/en/courses/>

Semester 1

No	Subject	Credit	Status (Compulsory/Elective)	Prerequisite
1	Indonesian for Scientific Communication	2	Compulsory	
2	Biology	2	Compulsory	
3	Physics	2	Compulsory	
4	General Chemistry	3	Compulsory	
5	Mathematics	3	Compulsory	
6	Islamic Education	2	Compulsory	
7	Philosophy State Education	2	Compulsory	
8	Laboratory Techniques	2	Compulsory	
9	Indonesian for Scientific Communication	2	Compulsory	
10	Physical Labwork	1	Compulsory	
11	General Chemistry Labwork	1	Compulsory	

Semester 2

No	Subject	Credit	Status (Compulsory/Elective)	Prerequisite
1	English	2	Compulsory	
2	Science Education	2	Compulsory	
3	Islam for Scholar	3	Compulsory	
4	Analytical Chemistry I	2	Compulsory	
5	Inorganic Chemistry I	2	Compulsory	

6	Physical Chemistry	3	Compulsory	
7	Organic Chemistry I	2	Compulsory	
8	Civic Education	2	Compulsory	
9	Computer Applications for Chemistry Labwork	1	Compulsory	
10	Physical Chemistry Labwork	1	Compulsory	

Semester 3

No	Subject	Credit	Status (Compulsory/Elective)	Prerequisite
1	Islam as Mercy to the World	3	Compulsory	
2	Chemical Bonding	2	Compulsory	Physical Chemistry
3	Sharia Entrepreneurship	2	Compulsory	
4	Analytical Chemistry II	2	Compulsory	Analytical Chemistry I
5	Inorganic Chemistry II	2	Compulsory	Inorganic Chemistry I
6	Organic Chemistry II	2	Compulsory	Organic Chemistry I
7	Management Education	2	Compulsory	
8	Student Development	2	Compulsory	
9	Analytical Chemistry Labwork	1	Compulsory	
10	Inorganic Chemistry Labwork	1	Compulsory	
11	Organic Chemistry Labwork	1	Compulsory	

Semester 4

No	Subject	Credit	Status (Compulsory/Elective)	Prerequisite
1	English for Chemistry Learning	2	Compulsory	
2	Biochemistry	2	Compulsory	
3	Capita Selecta	2	Compulsory	

4	Instrumental Chemistry	3	Compulsory	
5	Chemistry for Senior High School I	2	Compulsory	
6	Management and Quality Assurance Laboratory School	2	Compulsory	
7	Instructional Media in Chemistry	2	Compulsory	
8	Teaching and Learning Strategies	2	Compulsory	
9	Microteaching for Senior High School I	2	Compulsory	
10	Biochemistry Labwork	1	Compulsory	

Semester 5

No	Subject	Credit	Status (Compulsory/Elective)	Prerequisite
1	Assessment for Chemistry Learning	3	Compulsory	
2	Chemistry for Senior High School II	2	Compulsory	
3	Research Methodology	2	Compulsory	
4	Chemical Research	2	Compulsory	
5	Microteaching for Senior High School II	2	Compulsory	
6	Planning and Developing of Chemistry Learning	2	Compulsory	
7	Instrumental Chemistry Labwork	1	Compulsory	
8	Education Profession	2	Compulsory	
9	Statistics for Research	2	Compulsory	
10	Review of Chemistry Curriculum for School	2	Compulsory	

Semester 6

No	Subject	Credit	Status (Compulsory/Elective)	Prerequisite
1	Health and Safety at Work	2	Compulsory	

2	Chemistry of Natural Resources	2	Compulsory	
3	Green Chemistry	2	Compulsory	
4	Chemical Kinetics	2	Compulsory	
5	Environmental Chemistry	2	Compulsory	
6	Separation dan Purification Chemistry	2	Compulsory	
7	Producing Animation-based Learning Media	2	Compulsory	
8	Field Introduction of School I	2	Compulsory	
9	Chemical Process Industry	2	Compulsory	
10	Techniques of Writing Academic Paper	2	Compulsory	

Semester 7

No	Subject	Credit	Status (Compulsory/Elective)	Prerequisite
1	Electrochemistry	2	Compulsory	
2	Chemistry in the Qur'an	2	Compulsory	
3	Coordination Chemistry	2	Compulsory	
4	Chemistry for Vocational High School	2	Compulsory	
5	Field Introduction of School II	2	Compulsory	
6	Thesis Proposal	2	Compulsory	
7	Community Assistance Program	2	Compulsory	
8	Elective 1	2	Elective	
9	Elective 2	2	Elective	
10	Elective 3	2	Elective	

Elective courses

No	Subject	Credit	Status (Compulsory/Elective)	Prerequisite
1	Application and Technology of Electrochemistry	2	Elective	
2	Chemical Additives	2	Elective	
3	Food Chemistry	2	Elective	
4	Chemistry of Marine Products	2	Elective	
5	Cosmetic Chemistry	2	Elective	
6	Chemistry of Essential Oils	2	Elective	
7	Chemistry of Perfume	2	Elective	
8	Polymer Chemistry	2	Elective	
9	Management of Tutoring Agency	2	Elective	
10	Producing of Chemistry Textbook	2	Elective	
11	Producing Video-based Learning Media	2	Elective	
12	Manufacture of Essential Oils Product	2	Elective	
13	Chemical Waste Treatment	2	Elective	
14	Essential Oils Product Analysis	2	Elective	
15	Design of Essential Oils Industry	2	Elective	
16	Chemical Product for Entrepreneurship	2	Elective	
17	Drinking Water Technology	2	Elective	
18	Waste Recycling Technology	2	Elective	

Semester 8

No	Subject	Credit	Status (Compulsory/Elective)	Prerequisite
1	Thesis	4	Compulsory	Thesis Proposal

Table of List of Compulsory Student Activities

No	Activity	Credit (skp)
1	Basic Understanding of Islamic Values	20
2	Qur'anic Personal Development	20
3	Personal Development Training	5
4	Student Institutional Leadership Practice	5