

Bachelor Degree Program in Chemistry and Biology Education

This program is composed of 2 related sciences. The program is based on professional knowledge and skills in chemistry and biology science with a diversity of teaching methods. Internships are a necessary part of the program, and students are given an opportunity for a practicum and internship at "Dunya" High School and/or other schools.

Code	Courses	Credits
University Requirements		54
General Education Requirements		42
Major Requirements		156
	Core Chemistry Courses	42
CHEM 208	General and inorganic chemistry	6
CHEM 220	Organic chemistry	6
CHEM 251	Oil chemistry	6
CHEM 311	Physical chemistry	6
CHEM 320	Chemistry of High-molecular Compounds (Polymer Chemistry)	6
CHEM 321	Analytical chemistry	6
CHEM 352	Colloid chemistry	6
	Elective Chemistry Courses	18
CHEM 201	Biochemistry	6
CHEM 417	Ecological Chemistry	6
CHEM 404	Fundamentals of chemistry technology	6
CHEM 442	Chemical Calculations	6
	Core Biology Courses	54
BIO 101	General biology	6
BIO 203	Cytology, histology and embryology	6
BIO 217	Plant physiology	6
BIO 222	Systematical zoology	6
BIO 312	Human anatomy	6
BIO 321	Systematical botanics	6
BIO 365	Human and animal physiology	6
BIO 403	Molecular biology	6

BIO 404	Genetics and selection	6
	Elective Biology Courses	18
BIO 412	Central nervous system	6
BIO 422	Membranology	6
BIO 433	Entomology and plant protection	6
BIO 434	Microbiology	6
	Methods of Teaching	12
EDU	Teaching Methods of Chemistry	6
EDU	Teaching Methods of Biology	6
	Core Education Courses	12
EDU 201	Introduction to Education	6
PSYC 304	Basics of Educational Psychology	6
	Practicum and Internship	12
TOTAL		264

Note: The school may also offer alternative courses to those listed above.