

Educational program 6B05204 - "Hydrogeology and geoecology"
Group of educational programs B052 - "Earth Science"

Form of study: full-time			Duration of study: 4 years			Academic degree: bachelor of science									
Discipline code	Name of disciplines	Cycle	Total amount in credits	Total hours	Classroom amount lec/lab/pr	SIS (including TSIS) in hours	Form of control	Allocation of face-to-face training based on courses and semesters							
								I course		II course		III course		IV course	
								1 semester	2 semester	3 semester	4 semester	5 semester	6 semester	7 semester	8 semester
CYCLE OF GENERAL EDUCATION DISCIPLINES (GED)															
M-1. Module of language training															
LNG 108	Foreign language	GED, RC	5	150	0/0/3	105	E	5							
LNG 108	Foreign language	GED, RC	5	150	0/0/3	105	E		5						
LNG 104	Kazakh (russian) language	GED, RC	5	150	0/0/3	105	E	5							
LNG 104	Kazakh (russian) language	GED, RC	5	150	0/0/3	105	E		5						
M-2. Module of physical training															
KFK 101-104	Physical Culture	GED, RC	8	240	0/0/8	120	Diferedit	2	2	2	2				
M-3. Module of information technology															
CSE 677	Information and communication technologies (in English)	GED, RC	5	150	2/1/0	105	E			5					
M-4. Module of socio-cultural development															
HUM 137	History of Kazakhstan	GED, RC	5	150	1/0/2	105	SE	5							
HUM 132	Philosophy	GED, RC	5	150	1/0/2	105	E			5					
HUM 120	Socio-political knowledge module (sociology, politology)	GED, RC	3	90	1/0/1	60	E			3					
HUM 134	Socio-political knowledge module (culturology, psychology)		5	150	2/0/1	150	E		5						
M-5. Module of anti-corruption culture, ecology and life safety base															
HUM 136	Fundamentals of anti-corruption culture	GED, CCH	5	150	2/0/1	150	E			5					
MNG 489	Fundamentals of Entrepreneurship and Leadership														
PET519	Fundamentals of Scientific research methods														
MNG564	Basics of Financial Literacy														
CHE 656	Ecology and life safety														
CYCLE OF BASIC DISCIPLINES (BD)															
M-6. Module of physical and mathematical training															
MAT 101	Mathematics I	BD, UC	5	150	1/0/2	105	E	5							
PHY 468	Physics	BD, UC	5	150	1/1/1	105	E	5							
MAT 102	Mathematics II	BD, UC	5	150	1/0/2	105	E		5						
M-7. Module of basic training															
GEO155	Bases of hydrogeology and geology	BD, UC	5	150	2/1/0*	105	E	5							
GEO519	General and historical geology	BD, UC	4	120	2/1/0*	75	E	4							
GIN148	Geology of sedimentary basin structures	BD, UC	5	150	2/0/1*	105	E		5						
GEO692	Hydrogeology	BD, UC	6	180	2/0/2*	120	E		6						
GEO423	Mineralogy and petrography	BD, UC	5	150	2/1/0*	105	E		5						
CHE495	General chemistry	BD, UC	5	150	1/1/1*	105	E		5						
GEN429	Engineering and computer graphics	BD, CCH	5	150	1/0/2	105	E		5						
GEO414	Geodesy with the basics of topography	BD, UC	5	150	2/1/0*	105	E		5						
GIG134	Geoinformation systems in hydrogeological and geoeological research	BD, UC	5	150	2/1/0*	105	E			4					
GEO582	General Engineering Geology	BD, UC	5	150	2/1/0*	105	E		5						
GEO523	Regional hydrogeology	BD, CCH	5	150	2/1/0*	105	E			5					
GEO522	Hydraulics and hydrology														
PET406	Drilling Wells	BD, UC	5	150	2/1/0*	105	E			5					
GEO586	Geoeology	BD, UC	5	150	2/1/0*	105	E			5					
GIG152	Geoeological research and mapping	BD, UC	4	120	2/1/0*	75	E							5	
GEO510	Hydrogeodynamics	BD, UC	5	150	2/1/0*	105	E			5					
MNG563	Fundamentals of sustainable development and ESG projects in Kazakhstan	BD, CCH	5	150	2/0/1*	105	E			5					
GEO571	Geophysical investigation of hydrogeological wells														
GIG154	Fundamentals of subsoil use and the Water Code														
GEO464	Watersupplying and field prospecting of mineral	BD, CCH	5	150	2/1/0*	105	E								
GEO588	Geoeological aspects of human activity				2/0/1*										
GEO639	Meteorology and climatology	BD, CCH	4	120	2/0/1*	75	E					4			
GEO637	Reclamation hydrogeology														
GEO435	Geology and Mineral Resources of Kazakhstan	BD, CCH	5	150	2/1/0*	105	E					5			
GEO518	Hydro geochemistry				2/0/1*										
GIG150	Search and prospecting of subterranean waters	BD, CCH	5	150	2/1/0*	105	E								
CSE831	Fundamentals of Artificial Intelligence				1/0/2*										

