



MAJOR CURRICULUM
for 2021-2022 academic year admission
Educational program 6B07307 - "Architecture"
Group of Educational programs B073 - "Architecture"

Full-time: study

Study duration: 5 years

Academic degree: Bachelor of engineering and technology

Year of study	Code	Name of discipline	Cycle	Total Credits	Total hours	classroom volume lect/hyp/BSW	IVMS (including IVMSI), in hours	Prerequisites	
1 semester (autumn 2021)									
1	LNG108	English	G	5	150	0/0/3	105	Diagnostic test	
	LNG104	Kazakh (Russian) language	G	5	150	0/0/3	105	Diagnostic test	
	ARC503	Drawing I	B	5	150	0/0/3	105	Diagnostic test	
	MAT101	Mathematics I	B	5	150	1/0/2	105		
	MAT165	Analytical geometry	B	5	150	1/0/2	105		
	GEN177	Engineering and computer graphics	B	5	150	1/1/1	105		
	HUM129	Culturology	G	2	60	1/0/0	45		
	ARC504	Architectural composition	B	5	150	1/0/2	105		
	KFK101	Physical education I	G	2	60	0/0/2	30		
	In total				34	23			
2 semester (spring 2022)									
2	LNG108	English	G	5	150	0/0/3	105		
	LNG104	Kazakh (Russian) language	G	5	150	0/0/3	105		
	HUM100	Modern history of Kazakhstan	G	5	150	1/0/2	105		
	ARC156	Drawing II	B	5	150	0/0/3	105		
	ARC113	Architectural drawing	B	5	150	0/0/3	105		
	ARC114	World History of Architecture	B	5	150	2/0/1	105		
	HUM128	Political science	G	2	60	1/0/0	45		
	PHY466	Architectural physics	B	5	150	1/0/2	105		
	KFK102	Physical education II	G	2	60	0/0/2	30		
	In total				34	21			
3 semester (autumn 2022)									
3	HUM132	Philosophy	G	5	150	1/0/2	105		
	CIV585	Computer graphics in construction drawing	B	5	150	1/2/0	105		
	HUM122	Psychology	G	2	60	1/0/0	45		
	MNG487	Fundamentals of Entrepreneurship, Leadership and Anti-corruption culture	G	3	90	1/0/1	60		
	CHE451	Life safety	G	2	60	1/0/0	45		
	CIV163	Building Mechanics	B	5	150	1/0/2	105		
	2201	Elective	B	5	150		105		
	2202	Elective	B	5	150		105		
	AAP103	Physical education III	G	2	60	0/0/2	30		
	In total				34	21			
4 semester (spring 2023)									
4	CSE677	Information and Communication technology	G	5	150	2/1/0	105		
	HUM127	Sociology	G	2	60	1/0/0	45		
	CHE432	Ecology and sustainable development	G	2	60	1/0/0	45		
	CIV164	Building construction	B	5	150	2/0/1	105		
	CIV124	Engineering systems of buildings and structures	B	5	150	2/0/1	105		
	ARC506	Design I	B	5	150	0/0/3	105		
	2203	Elective	B	3	90		60		
	2204	Elective	B	5	150		105		
	AAP104	Physical education IV	G	2	60	0/0/2	30		
	In total				34	22			
5 semester (autumn 2023)									
5	ARC509	Integrated design I	P	5	150	0/0/3	105		
	ARC510	Integrated design II	P	5	150	0/0/3	105		
	ARC106	Architectural typology	B	5	150	2/0/1	105		
	3205	Elective	B	5	150		105		
	3206	Elective	B	5	150		105		
	3207	Elective	B	5	150		105		
	In total				30	18			
	6 semester (spring 2024)								
	6	ARC440	Integrated design III	P	5	150	0/0/3	105	
		ARC441	Integrated design IV	P	5	150	0/0/3	105	
3208		Elective	B	5	150		105		
3209		Elective	B	5	150		105		
3210		Elective	B	5	150		105		
3211		Elective	P	5	150		105		
In total				30	18				
7 semester (autumn 2024)									
7		ARC442	Integrated design V	P	5	150	0/0/3	105	
		ARC443	Integrated design VI	P	5	150	0/0/3	105	
	4212	Elective	B	5	150		105		
	4213	Elective	B	5	150		105		
	4214	Elective	B	5	150		105		
	4215	Elective	B	5	150		105		
In total				30	18				
8 semester (spring 2025)									
8	ARC444	Integrated design VII	P	5	150	0/0/3	105		
	ARC445	Integrated design VIII	P	5	150	0/0/3	105		
	ARC132	Basic of BIM-technology	P	5	150	0/0/3	105		
	4216	Elective	P	5	150		105		
	4217	Elective	B	5	150		105		
	4218	Elective	B	5	150		105		
In total				30	18				
9 semester (autumn 2025)									
9	5319	Elective	P	5	150		105		
	5320	Elective	P	5	150		105		
	5321	Elective	P	5	150		105		
	5322	Elective	P	5	150		105		
	5323	Elective	P	5	150		105		
	5324	Elective	P	5	150		105		
In total				30	18				
10 semester (spring 2026)									
10	ECA003	Preparation and writing of the thesis (project)	FA	6					
	ECA103	Graduate thesis (project) defense	FA	6					
In total					12				

Year of study	Code	Name of discipline	Cycle	Credits	Recommended semester
Obligatory education with P/NP assessment					
1	AAP101	Training Practice	B	1	2
2	AAP112	Training Practice II	B	1	4
3	AAP109	Industrial internship I	B	1	6
4	AAP158	Industrial internship II	P	2	8
Additional types of training					
1	AAP107	Educational field geological internship	G	0	5-7
2-4	AAP500	Military training	B	0	3-6

Total number of credits			
Cycle of disciplines	compulsory	Credits	
		elective	total
Cycle of general disciplines (G)		58	
Cycle of basic disciplines (B)		68	73
The cycle of profiling disciplines (P)		47	45
Total of theoretical study:		173	118
Final attestation (FA)		12	0
Total:		12	0
OVERALL:		185	118

Decision of the Academic Council Satbayev University Minutes # 3, dated 25.06.2021.

Decision of the Academic Council of the IA&CI after T.K.Basenov. Minutes # 10, dated 11.06.2021.

Vice-Rector for Academic Affairs

Director of IA&C after T.K.Basenov

Head of department "Architecture"

Representative of the Specialty Council

Zhautikov B.A.
Kuspangaliev B.U.
Khojnikov A.V.
Karmanov Sh.D.



**SATBAYEV
UNIVERSITY**



CATALOG OF ELECTIVE DISCIPLINES
 Educational program 6B07307 - "Architecture"
 Group of Educational programs B073 - "Architecture"

Full-time study Study duration : 5 years Academic degree: Bachelor of engineering and technology

Year of study	Element code for curriculum	Code of discipline	Specialization area	Name of the discipline	Cycle	Credits	lec/lab/pr/ IWS	Prerequisites	
3 semester (autumn 2022)									
2	2201	ARC157	Architecture	Sculpture	B	5	0/0/3		
		ARC453	Graphic design	History of design, science and technology					
			Industrial Design						
			Architectural design						
			Landscape design						
	2202	ARC505	Architecture	Painting	B	5	0/0/3		
		ARC461	Graphic design	Ergonomics					
			Industrial Design						
			Architectural design						
			Landscape design						
Total:						10			
4 semester (spring 2023)									
2	2203	ARC435	Architecture	Architecture of industrial buildings	B	3	1/0/1		
		ARC426	Graphic design	Conceptual aspects of the design					
			Industrial Design						
			Architectural design						
			Landscape design						
	2204	ARC508	Architecture	Architectural coloristics and lighting	B	5	2/0/1		
		ARC466	Graphic design	Light-color organization of the environment					
			Industrial Design						
			Architectural design						
			Landscape design						
Total:						8			
5 semester (autumn 2023)									
3	3205	ARC410	Architecture	Photographica	B	5	1/0/2		
		Graphic design							
		ARC187	Industrial Design	The Visual Culture Basics					
			Architectural design						
			Landscape design						
	3206	ARC149	Architecture	Reconstruction of Asian monuments	B	5	2/0/1		
		ARC488	Graphic design	TV design					
		ARC489	Industrial Design	Regional Design					
			Architectural design						
	ARC490	Landscape design	Reconstruction of landscape architecture objects						
3207	ARC115	Architecture	Urban design	B	5	2/0/1			
	ARC452	Graphic design	Calligraphy and typography						
	ARC453	Industrial Design	History of design, science and technology						
	ARC185	Architectural design	Interior History						
	ARC454	Landscape design	History of landscape art						
Total:						15			
6 semester (spring 2024)									
3	3208	ARC145	Architecture	Professional modeling in the architecture IV	P	5	0/0/3		
		ARC476	Graphic design	Digital Simulation I					
			Industrial Design						
			Architectural design						
	ARC477	Landscape design	Modeling technologies in design I						
	3209	ARC152	Architecture	Reconstruction and modernization of buildings and complexes	P	5	1/0/2		
		ARC463	Graphic design	Design and advertising technologies					
		ARC464	Industrial Design	Typology of industrial design					
		ARC180	Architectural design	Typology of the architectural environment					
		ARC479	Landscape design	Landscape science					
3210	ARC159	Architecture	Modern materials in architecture	B	5	2/0/1			
	ARC183	Graphic design	Modern materials in design						
		Industrial Design							
		Architectural design							
ARC183	Landscape design								

3211	ARC456	Architecture	Aesthetics in architecture	B	5	2/0/1	
	ARC457	Graphic design	Polygraphic design			1/0/2	
		Industrial Design					
		Architectural design					
ARC459	Landscape design	Decorative plant growing					
Total:						20	

7 semester (autumn 2024)

4212	ARC478	Architecture	The principles of sustainable architecture	B	5	2/0/1		
	ARC460	Graphic design	Package design					
	ARC461	Industrial Design	Ergonomics					
		Architectural design						
ARC462	Landscape design	Urboecology						
4213	ARC130	Architecture	The methodology design of architectural objects	B	5	0/0/3		
	ARC468	Graphic design	Web Design I					
	ARC469	Industrial Design	Special equipment for environment I					
	ARC470	Architectural design	Equipment for recreational urban areas					
4214	ARC480	ARC471	Landscape design	Environmental objects of urbanized territories	B	5	0/0/3	
		Architecture	Professional modeling architecture V					
		Graphic design	Special Painting					
		Industrial Design						
4215	ARC481	Architectural design	Vertical layout of landscape architecture objects	B	5	0/0/3		
		Landscape design						
		ARC117					Architecture	Engineering and transport improvement
		ARC465					Graphic design	Digital Simulation II
		ARC181					Industrial Design	Construction of object design
4215	ARC473	Architectural design	Modeling Technologies in Design II	B	5	0/0/3		
		Architectural design	Modeling Technologies in Design II					
		Landscape design	Design of hydraulic structures in the urban environment					
Total:						20		

8 semester (spring 2025)

4216	ARC483	Architecture	Energy Efficient design	P	5	1/0/2	
		Architectural design	Ecological Aspects of Design Design				
		Industrial Design					
		Architectural design					
4317	ARC474	ARC181	Graphic design	B	5	0/0/3	
		Industrial Design	Construction of object design				
		Architectural design	Modeling Technologies in Design II				
		Architectural design	Design of hydraulic structures in the urban environment				
7218	ARC487	ARC154	Architecture	B	5	0/0/3	
		ARC484	Graphic design				Web Design II
		ARC485	Industrial Design				Special environment equipment II
		ARC486	Architectural design				Special equipment for interior
		Landscape design	Technologies of protection and care of vegetation on objects of landscape architecture				
Total:						15	

9 semester (autumn 2025)

5319	ARC135	Architecture	Externship project I	P	5	0/0/3		
		Graphic design						
		Industrial Design						
5320	ARC127	Architectural design	Complex project I	P	5	0/0/3		
		Landscape design						
5320	ARC136	Architecture	Externship project II	P	5	0/0/3		
		Graphic design						
		Industrial Design						
5321	ARC128	Architectural design	Complex project II	P	5	0/0/3		
		Landscape design						
		ARC403					Architecture	Pre-project analysis I
5321	ARC424	Graphic design	Pre-project analysis in design I	P	5	0/0/3		
		Industrial Design						
		Architectural design						
		Landscape design						
5322	ARC404	Architecture	Pre-project analysis II	P	5	0/0/3		
		Graphic design						
		Industrial Design					Pre-project analysis in design II	
		Architectural design						
5323	ARC431	Landscape design	Working design	P	5	0/0/3		
		ARC406					Architecture	Detailed design
		Graphic design						
		Industrial Design						
5323	ARC416	Architectural design	Working design	P	5	0/0/3		
		Architectural design						
		Landscape design						

5324	ARC409	Architecture	Modern regulatory and legal aspects in architecture and urban planning	P	5	2/0/1	
	ARC491	Graphic design	Production of design objects			0/0/3	
		Industrial Design					
	ARC492	Architectural design	Equipment for urban environment				
ARC493	Landscape design	Complex organization of public spaces					
Total:					30		


Number of credits in elective disciplines for the entire period of study	
Cycles of disciplines	Credits
The cycle of general educational disciplines (G)	
The cycle of basic disciplines (B)	73
The cycle of profiling disciplines (P)	45
OVERALL:	118

Decision of the Academic Council of the IA&CI after T.K.Basenov. Minutes # 10, dated "11" 06. 2021.

Head of department "Architecture"


Khojikov A.V.

Representative of the Specialty Council


Karmanov Sh.D.