Khazar University

MATHEMATICS AND INFORMATICS EDUCATION B.S. Program

1st-Year

CODE	Fall Semester	KU	ECTS	CODE	Spring Semester	KU	ECTS
AZLL 101	Azerbaijan Literature	3	6	AZH 150	Azerbaijan History	3	6
MATH 097	Elementary Mathematics	4	8	MATH 102	Mathematical Analysis-1	4	8
ASC 201	Azerbaijan Culture	3	6	AZLL 105	Business and academic communication in Azerbaijani language	3	6
ENGL 101	English Foundation I	4	8	EDU 101	Introduction to Education	3	6
CMS 101	Introduction to Computer Science	3	6	ENGL 102	English Foundation II	4	8
	Credit	17	34		Credit	17	34

2nd-Year

CODE	Fall Semester	KU	ECTS	CODE	Spring Semester	KU	ECTS
ENGL 103	Academic English	4	8	MATH 220	Mathematical Analysis-3	3	6
PSYC 304	Basics of Educational Physiology	3	6	ENGL 216	English for Special Purposes	3	6
MATH 203	Mathematical Analysis-2	3	6	MATH 228	Higher Algebra	4	8
MATH 209	Analytic Geometry	4	8	CMS 240	Programming Languages	3	6
CMS 211	Fundamentals of Computer Programming	3	6		Humanity*	3	6
	Credit	17	34		Credit	16	32

3rd-Year

CODE	Fall Semester	KU	ECTS	CODE	Spring Semester	KU	ECTS
EDU 302	Curriculum and assessment strategies	3	6	MATH 331	Ordinary Differential Equations	3	6
MATH 301	Mathematical Analysis-4	3	6	MATH 365	Theory of Functions of a Real Variable	3	6
MATH 313	Linear Algebra	3	6	EDU 495	Modern Education methods	3	6
CMS 311	Data Structure and Algorithms	3	6	CMS 356	Information Systems and Databases	3	6
	Social science**	3	6		Humanity *	3	6
	Credit	15	30		Credit	15	30

4th-Year

CODE	Fall Semester	KU	ECTS	CODE	Spring Semester	KU	ECTS
MATH 401	Mathematical Physics Equations	2	4	MATH 443	Discrete Mathematics and Mathematical Logic	3	6
MATH 423	Numerical Methods	3	6	MATH 461	Probability Theory and Mathematical Statistics	3	6
CMS 427	Computer Graphics	3	6	CMS 121	ICT in Education	3	6
PHSC 115	Physics	3	6	CMS 452	Numerical Software Applications	3	6
	Social science**	3	6	MED 315	Life science	3	6
	Credit	14	28			15	30

5th-Year

CODE	Fall Semester	KU	ECTS	CODE	Spring Semester	KU	ECTS
EDU 407	Passive Practice	6	12	EDU 408	Active Practicum	6	12
MATH 512	Teaching methods of Mathematics	3	6	CMS 435	Teaching methods of Informatics	3	6
	Major Elective-1	3	6		Major Elective-2	3	6
	Credit	12	24		Credit	12	24
	Total	150	300				

		CREDIT	ECTS			Major Electives List:	CREDIT	ECTS
	* Humanity Courses List:					Mathematics		
	Humanity 1	3	6			Major Elective	3	6
	Humanity 2	3	6		MATH 335	Functional Analysis		
PHIL 101	Introduction to Philosohy				MATH 525	Topology		
TURK 315	Culture of Turkish World				MATH 441	Advanced Topics in Complex Analysis		
SPH 202	Culture of Speech				MATH 520	Abstract Algebra		
FNLG 202	2-nd foreign language							
						Informatics		
	** Social Science List:					Major Elective	3	6
	Social Science 1	3	6		CMS 459	Information Security		
	Social Science 2	3	6		CMS 355	Internet Progrfamming		
EDU 496	Classroom Management				CMS 371	Operating Systems		
EDU 218	Inclusive Education							
PSYC 311	Social Psychology					University Requirement English	15	30
MGT 410	Organizational Behaviour					University Requirement Azeri	12	24
						Humanity	6	12
						Social Sciences	6	12
						Science and Technology	9	18
						Major Courses		

						total	**150**	**300**

Azerbaijan Language