KHAZAR UNIVERSITY

Computer Science B.S. Program

1st Year

CODE	Fall Semester	KU	ECTS
AZLL 101	Azerbaijan language	3	6
AZC 202	Azerbaijan Culture	2	4
CMS 115	Computer Application in Engineering	3	6
ENGL 101	English Foundations 1	4	8
MATH 101	Calculus 1	3	6
	** Social Sciences	3	6
	Credit	18	36

CODE	Spring Semester	KU	ECTS
MATH 105	Calculus 2	3	6
PHSC 150	Physics for computer science	3	6
ENGL 102	English Foundations 2	4	8
CMS 140	Fundamentals of Computer programming	3	6
AZH 150	Azerbaijan History	3	6
	Credit	16	32

2nd Year

CODE	Fall Semester	KU	ECTS
MATH 231	Applied Linear Algebra and Analysis	3	6
CMS 205	Object Oriented Programming	3	6
CMS 220	Web & Mobile Programming 1	3	6
ENGL 216	ESP Computer Science	3	6
	* Humanity	3	6
	Credit	15	30

CODE	Spring Semester	KU	ECTS
CMS 316	Database Management Systems	4	8
CMS 250	Web Programming 2	3	6
MATH 208	Analytic Geometry	3	6
CMS 215	Data Structures	3	6
	* Humanity	3	6
	Credit	16	30

3rd Year

CODE	Fall Semester	KU	ECTS
MATH 310	Applied Differensial Equations	3	6
MATH 217	Probability theory and mathematical Statistics	3	6
CMS 309	Computer Networks	3	6
CMS 336	Design and Analysis of Modern Algorithms	3	6
CMS 362	Operating Systems	3	6
CMS 241	Computer Organization and system programming	3	6
	Credit	18	38

CODE	Spring Semester	KU	ECTS
MATH 312	Introduction to Discrete Mathematics	3	6
MATH 317	Complex Analysis	3	6
MATH 320	Numerical Analysis	3	6
	***Major Electives	3	6
	** Social Sciences	3	6
	Credit	15	30

CODE	Summer Semester	KU	ECTS
CMS 395	Summer Practice	6	12
	Credit	6	12

4th Year

CODE	Fall Semester	KU	ECTS
CMS 415	Artificial Intelligence	3	6
MED 315	Life Sciences	3	6
CMS 451	Information Security	3	6
	***Major Electives	3	6
	Credit	12	24

CODE	Spring Semester	KU	ECTS
CMS 445	Machine Learning	3	6
CMS 458	Parallel and distributed computing	3	6
	***Major Electives	3	6
	***Major Electives	3	6
	Credit	12	24

Total Credit for Graduation 128 256

	* Humanity	6				***Major Electives	KU	ECTS
FNLG 201	Foreign language 1	3			EENG 302	Signals and Systems	3	6
HIST 110	History of World Civilizations	3			ETR 346	Telecommunication networks	3	6
FNLG 202	Foreign language 2	3			CMS 355	Computer Science Lab Project	3	6
PHIL 110	Introduction to philosophy	3			CMS 430	Software Engineering	3	6
LAW 220	Family Law	3			CMS 410	Cisco Certificate Network Administrator 1	3	6
LAW 102	Law Enforcement Systems	3			CMS 445	Machine Learning	3	6
					CMS 425	Soft Computing	3	6
	** Social Sciences	6			CMS 510	Neural Networks	3	6
MGT 310	Management and Organization	3			CMS 401	Introduction to Robotics	4	8
LAW 220	Family Law	3						
ECON 101	Introduction to Economics	3					KU	ECTS
LAW 102	Law Enforcement Systems	3				University Requirement English	11	22
						University Requirement Azeri	8	16
						Humanity	6	12
						Social Sciences	6	12
	Science and Technology	9				Science and Technology	9	18
MATH 101	Calculus 1	3				Major Courses	88	176
CMS 115	Computer Application in Engineering	3						
MED 315	Life Sciences	3				Total	128	256