

KHAZAR UNIVERSITY

Computer Science B.S. Program

1st Year

CODE	Fall Semester	KU	ECTS
AZLL 101	Azerbaijan language	3	6
MATH 101	Calculus 1	3	6
CMS 115	Computer Application in Engineering	3	6
ENGL 101	English Foundation 1	4	8
	Humanity	3	6
	Credit	16	32

CODE	Spring Semester	KU	ECTS
MATH 102	Calculus 2	3	6
PHSC 150	Physics for Computer Sciences	3	6
ENGL 102	English Foundation 2	4	8
CMS 140	Fundamentals of Computer Programming	3	6
AZH 150	Azerbaijan History	3	6
AZC 202	Azerbaijan Culture	2	4
	Credit	18	36

2nd Year

CODE	Fall Semester	KU	ECTS
MATH 231	Applied Linear Algebra	3	6
CMS 205	Object Oriented Programming	3	6
CMS 220	Web Programming 1	3	6
ENGL 216	ESP Computer Science	3	6
	Social Sciences	3	6
	Credit	15	30

CODE	Spring Semester	KU	ECTS
CMS 240	Computer Organization	3	6
CMS 250	Web Programming 2	3	6
MATH 340	Applied Statistical Analysis	3	6
CMS 215	Data Structures	3	6
	Humanity*	3	6
	Credit	15	30

3rd Year

CODE	Fall Semester	KU	ECTS
MATH 312	Introduction to Discrete Mathematics	3	6
CMS 350	Computer Graphics	3	6
CMS 309	Computer Networks	3	6
CMS 316	Database Management Systems	4	8
CMS 336	Design and Analysis of Algorithms	3	6
	Credit	16	32

CODE	Spring Semester	KU	ECTS
CMS 360	Operations Research	3	6
CMS 451	Introduction to Theory of Computation	3	6
MATH 330	Numerical Analysis	3	6
	Elective (major)***	3	6
	Social Sciences	3	6
	Credit	15	30

CODE	Fall Semester	KU	ECTS

CODE	Summer Semester	KU	ECTS
CMS 395	Summer Practice	3	6
	Credit	3	6

4th Year

CODE	Fall Semester	KU	ECTS
CMS 415	Artificial Intelligence	3	6
CMS 535	Multimedia Systems	3	6
MED 315	Life Science	3	6
	Elective (major)***	3	6
	Elective (major)***	3	6
	Credit	15	30

CODE	Spring Semester	KU	ECTS
CMS 425	Soft Computing	3	6
CMS 430	Software Engineering	3	6
CMS 451	Information Security	3	6
CMS 455	Introduction to Compilers	3	6
	Elective (major)***	3	6
	Credit	15	30

Total Credit for Graduation **128** **256**

* Humanity Courses List:		***Major Electives List:		KU	ECTS
PHIL 130	Culture of Philosophy	EENG 302	Signals and systems	3	6
	Foreign Language	ETR 346	Telecommunication networks	3	6
		CMS 355	Computer Science Lab Project	3	6
	** Social Sciences	CMS 362	Operating Systems	3	6
MGT310	Management and Organization	CMS 410	CISCO certificate network administrator 1	3	6
LAW 220	Family Law	CMS 451	Information Security	3	6
ECON 101	Introduction to Economics	CMS 490	CISCO certificate network administrator 2	3	6
		CMS 510	Neural Networks	3	6
		CMS 401	Introduction to Robotics	4	8
				KU	ECTS
			University Requirement English	11	22
			University Requirement Azeri	8	16
	Science and Technology		Humanity	6	12
MATH 101	Calculus I		Social Sciences	6	12
CMS 202	Computer Application in Engineering		Science and Technology	9	18
MED 315	Life Science		Major Courses	88	176
			Total	128	256