

COURSE STRUCTURE

2025-10154 Biotechnology (AZ) Bachelor

1						2					
No	Course code	Title	Th	Pr	Ects	No	Course code	Title	Th	Pr	Ects
1	TRX 111	History of Azerbaijan	2	2+0	5	1	FİZ 149	Applied Physics	2	1+1	5
2	BTEX 109	Mathematics and biostatistics for the biological sciences	2	2+0	5	2	AZD 140	Official and Academic Communication in the Azerbaijani language	0	2+0	4
3	BTEX 101	General Biology	2	0+2	6	3	KM 130	Applied chemistry	2	0+2	5
4	XXX XXX	[NAE] Foreign language I	0	6+0	8	4	XXX XXX	[NAE] Foreign language II	0	6+0	7
5	XXX XXX	[AE] Area Elective Course I #1	2	0+2	6	5	XXX XXX	[AE] Area Elective Course II #2	2	2+0	6
						6	XXX XXX	[NAE] Non-Area Elective Course I #1	2	0+0	3
Subtotal: 30						Subtotal: 30					

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№	Course code	Title	Th	Pr	Ects
1	BTEX 209	Biochemistry	4	0+2	7
2	BTEX 201	Biotechnology-1	2	0+2	5
3	BTEX 203	Cytology and Histology	2	0+2	5
4	MM 125	Civil Defence	2	0+0	3
5	XXX XXX	[AE] Specialization elective subject IV #4	2	0+1	5
6	XXX XXX	[AE] Specialization elective subject III #3	2	0+1	5

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	BTEX 204	Biotechnology-2	2	0+2	5
2	BTEX 202	Molecular Biology	4	0+2	7
3	BTEX 206	Human and animal physiology	2	2+0	5
4	BTEX 208	Biophysics	2	1+0	5
5	XXX XXX	[AE] Specialization elective subject V #5	2	0+1	5
6	XXX XXX	[NAE] Non-Area Elective Course II #2	0	2+0	3

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	BTEX 301	Biotechnology of microorganisms	2	0+2	5
2	BTEX 307	Plant biotechnology	2	0+2	5
3	BTEX 305	Molecular genetics	2	0+2	5
4	BTEX 303	Plant physiology	2	0+2	5
5	XXX XXX	[AE] Area Elective Course VI #6	2	0+1	5
6	XXX XXX	[AE] Area Elective Course VII #7	2	0+1	5

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	BTEX 318	Bioinformatics	2	2+0	5
2	BTEX 304	Enzymology	2	0+2	5
3	BTEX 302	Animal biotechnology	2	2+0	5
4	BTEX 306	Immunology	2	0+2	5
5	XXX XXX	[AE] Area Elective Course VIII #8	2	0+1	5
6	XXX XXX	[AE] Area Elective Course IX #9	2	0+1	5

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
1	BTEX 405	Cell engineering	2	0+1	5
2	BTEX 403	Genetic engineering	4	0+2	7
3	BTEX 401	Tissue culture	2	0+2	5
4	XXX XXX	[AE] Specialization elective subject XII #12	2	1+0	4
5	XXX XXX	[AE] Area Elective Course X #10	2	1+0	4
6	XXX XXX	[AE] Area Elective Course XI #11	2	1+0	5

Subtotal: 30

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№	Course code	Title	Th	Pr	Ects
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Subtotal: 0

Total ECTS credits: **210**

AE - Area Elective Courses

№	Course code	Title	Th	Pr	Ects
1	BTEX 105	Plant Systematics	2	0+2	6
2	BTEX 103	Botany	2	0+2	6
3	BTEX 102	Introduction to Biotechnology	2	2+0	6
4	BTEX 104	Introduction to the specialty	2	2+0	6
5	BTEX 205	Zoology	2	0+1	5
6	BTEX 207	Microbiology	2	0+1	5
7	KM 275	Organic chemistry	2	0+1	5
8	KM 277	Analytical chemistry	2	0+1	5
9	BTEX 210	Mycology	2	0+1	5
10	BTEX 212	Virology	2	0+1	5

