

MINISTRY OF SCIENCE AND EDUCATION
REPUBLIC OF AZERBAIJAN
WESTERN CASPIAN UNIVERSITY

Approved by
Executive Vice-Rector R.H. Baghirov
Western Caspian University

Code and name of the specialty: 060505 – Biology
Name of specialization: Molecular biology
Study Period: 2 year (4 semester)

_____ 2022

CURRICULUM
(for Master's level)

I. ACADEMIC SCHEDULE

Semester	September	October	November	Dekabr	January	February	March	April	May	June	July	August
	I	=	=			::	::	::	::	::	=	=
II	=	=			::	::	::	::	::	=	=	=

Symbols : THEORETICAL TRAINING



INTERNSHIP



EXAMINATION SESSION



STATE FINAL CERTIFICATION



HOLIDAY



II Academic Teaching plan

№	Subject code	Subject name	Credit number	Total hours	Non curricular hours	Classroom hours	Including			Prerequisite (first teaching necessary) code of subjects	Teaching the subject intended semester held (Fall or spring)	Weekly class load
							Lecture	Seminar	Laboratory			
	MHF – B00	Humanities	14	420	315	105	35	70				
1	MHF – B01	Foreign language	6	180	135	45		45			1-Fall	3
2	MHF – B02	Higher school pedagogy	4	120	90	30	15	15			3-Fall	2
3	MHF – B03	Psychology	2	60	45	15	10	5			2-Spring	1
4	MHF – B04	Major Elective Subject: 1. Economy 2. Philosophy	2	60	45	15	10	5			3-Fall	1
	MİF – B00	Speciality (specialization) subjects	10	300	225	75	40	35				
5	MİF-B01	Modern problems of biology	4	120	90	30	15	15		MİF-B02	1-Fall	2
6	MİF-B02	History and methodology of biology	2	60	45	15	10	5			1-Fall	1
7	MİF – B03	AMTSF: Methods of Structural Biology	4	120	90	30	15	15			2-Spring	2
	MİF-B04	Major Specialization subjects-MSS	42	1260	945	315	195	105				
8	MİF-B04.01	Molecular evolution	6	180	135	45	30	15			1-Fall	3
9	MİF-B04.02	Genetic and protein engineering	4	120	90	30	15		15		2-Spring	2
10	MİF-B04.03	Genomics	6	180	135	45	30	15			2-Spring	3
11	MİF-B04.04	Molecular biology of photosynthesis	6	180	135	45	30	15			1-Fall	3
12	MİF-B04.05	Proteomics	6	180	135	45	30	15			1-Fall	3
13	MİF-B04.06	Biostatistics	6	180	135	45	30	15			2-Spring	3
14	MİF-B04.07	Research methods of molecular biology	8	240	180	60	30	30			3-Fall	4
	MİF-B005	Elective subject-ES	24	720	540	180	90	90				
15	MİF-B05.01	I block: - Structural and functional mechanisms of biological macromolecules - Protein–protein interaction mechanisms	8	240	180	60	30	30			2-Spring	4
16	MİF-B05.02	II block: Mechanisms of regulation of the expression of genetic information Epigenetics and gene regulation	8	240	180	60	30	30			3-Fall	4
17	MİF-B05.03	III block: - Molecular mechanisms of biological signal transduction - Molecular phytopathology	8	240	180	60	30	30			3-Fall	4
	MET – B00	Scientific research works	30									
18	MET – B01	Scientific research internship	6								4-Spring	
19	MET – B02	Scientific pedagogical internship	6								4-Spring	
20	MET – B03	Preparation an defense of dissertation work	18								4-Spring	
		<i>Total</i>	120									

1 week of the internship period is 1.5 credits.

II. TIME FOR TRAINING

Education year	Theoretical training	Exam	Internship	SFC	Holiday
I	30	10			10
II	15	5	8	12	4
Total:	45	15	8	12	14

	1 st semester	2 nd semester	3 rd semester	4 th semester
Weekly class load	15	15	15	-
Examinations number	7	6	5	-
Credits number	30	30	30	30

NOTE: The curriculum prepared based on the educational program approved in 2012 has been adapted to the "Rules for the Organization of Education with the Credit System at the Bachelor's and Master's Levels of Higher Education Institutions" approved by the Resolution No. 348 of the Cabinet of Ministers of the Republic of Azerbaijan dated December 24, 2013.

Director of the Center for Organization and

Management of Education:

_____ PhD, P. Akhundov

«_____» _____ 2022

Scientific Council of WCU «_____»

Approved at the meeting of _____ dated in the year 2022

(Protocol No. _____).