

Urmia University of Medical Sciences
School of Allied Health
Curriculum of Laboratory Sciences - BSc. Degree

Urmia University of Medical Sciences (UMSU)- International Campus

Laboratory Sciences curriculum for the BSc. degree. Some subjects could be displaced between semesters.

Laboratory Sciences-BSc.-1st semester

	Subject	Number of Credits			Total credits
		Credit (Theoretical)	Credit (Practical)	Prerequisite	
1	General physics	2	-		2
2	General chemistry	2	-		2
3	General Physics Lab.	-	1		1
4	General Chemistry Lab.	-	1		1
5	Anatomy(Theoretical)	2	-		2
6	Anatomy(Practical)	-	1		1
7	Cellular & Molecular Biology	2			2
8	Cellular & Molecular Biology	-	1		1
9	Pre university chemistry	2			2
10	Pre university English	2	-		2
11	Islamic ethics 1	2	-		2
12	Persian literature	3			3
Total					21

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Laboratory Sciences - BSc.- 2th semester

	Subject	Number of Credits			Total credits
		Credit (Theoretical)	Credit (Practical)	Prerequisite	
1	Biophysics	2	-	General physics	2
2	Public Health & Epidemiology	2	-	-	2
3	General Biochemistry	3	-	General chemistry	3
4	General Biochemistry Lab.	-	1	-	1
6	Theoretical Physiology	2	-	Cellular & Molecular Biology	2
7	Physiology Lab.	-	1	-	1
8	Computer	2			2
9	General English	3			3
10	Physical Education 1	-	1		1
11	Islamic thought 1	2	-	Islamic ethics 1	2
Total					19

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Laboratory Sciences - BSc.- 3th semester

	Subject	Number of Credits			Total credits
		Credit (Theoretical)	Credit (Practical)	Prerequisite	
1	Medical Biochemistry 1	3	-	General Biochemistry	3
2	Medical Biochemistry Lab.	-	1		1
3	General Microbiology	2	-	Cellular & Molecular Biology	2
4	General Microbiology Lab.	-	1		1
5	Parasitology 1 (worms)	2	-	Cellular & Molecular Biology	2
6	Parasitology Lab. 1 (worms)	-	1		1
7	Medical Immunology	3	-	Physiology	3
8	Medical Immunology Lab	-	2		2
9	Theoretical Histology	1		Anatomy	1
10	Histology Lab.		1		1
11	Islamic ethics 2	2	-		2
Total					19

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Laboratory Sciences - BSc.- 4th semester

	Subject	Number of Credits			Total credits
		Credit (Theoretical)	Credit (Practical)	Prerequisite	
1	Parasitology 2 (protozoans & insects)	2	-	Parasitology	2
2	Parasitology Lab. 2	-	1		1
3	General Pathology	2	-	Anatomy	2
4	General Pathology Lab.	-	1		1
5	Medical Biochemistry 2	2	-	Medical Biochemistry 1	2
6	Medical Biochemistry 2 Lab.	-	1		1
7	Hematology 1	3	-	Physiology	3
8	Hematology 1 Lab.	-	2		2
9	English Texts & Medical Terminology	2	-		2
10	Islamic Revolution	2	-		2
Total					18

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Laboratory Sciences - BSc.- 5th semester

	Subject	Number of Credits			Total credits
		Credit (Theoretical)	Credit (Practical)	Prerequisite	
1	Medical Microbiology	2	-	General Microbiology	2
2	General Microbiology Lab	-	1		1
3	Hormonology	1	-	Medical Biochemistry 2	1
4	Hormonology Lab.	-	1		1
5	Pharmacology	2	-	Medical Biochemistry 1 , Physiology	2
6	Hematology 2	2	-	Hematology 1	2
7	Hematology 2 Lab.	-	1		1
8	Biostatistics	2	-		2
9	Analytic History of Islam	2	-		2
10	Physical Education 2	-	1		1
Total					15

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Laboratory Sciences - BSc.- 6th semester

	Subject	Number of Credits			Total credits
		Credit (Theoretical)	Credit (Practical)	Prerequisite	
1	Mycology	2	-	General microbiology	2
2	Mycology Lab.	-	1		1
3	bacteriology	3	-	General microbiology	3
4	Bacteriology Lab.	-	1		1
5	Seminar	1	-	Hematology 2, Medical Biochemistry 2	1
6	Medical genetics	1	-	Cellular & Molecular Biology	1
7	Technical Principles and Maintenance of Laboratory Instruments	1	-	Medical Biochemistry 2, Biophysics	1
8	Principles of Safety & Protection in Laboratory	1		Medical Microbiology, Medical Immunology	1
9	Quality Control Methods in Clinical Laboratories	1		Medical Biochemistry 2, Hematology 2	1
10	Grneral psychology	2			2
11	Islamic texts	2	-		2
Total					16

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Laboratory Sciences - BSc.- 7th semester

	Subject	Number of Credits			Total credits
		Credit (Theoretical)	Credit (Practical)	Prerequisite	
1	Immunohematology	2	-	Immunology	2
2	Immunohematology Lab.	-	1		1
3	Toxicology	1	-	Pharmacology	1
4	Toxicology Lab.	-	1		1
5	Laboratory Rules & Management Principles	1	-	Principles of Safety & Protection in Laboratory	1
6	Introduction to Internal Medicine	2	-	Hematology 2, Medical Biochemistry 1	2
7	Internship 1	-	4		4
	Population & family planning	2			2
8	Culture and Civilization of Islam & Iran	2	-	-	2
Total		-			16

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Laboratory Sciences - BSc.- 8th semester

	Subject	Number of Credits			Total credits
		Credit (Theoretical)	Credit (Practical)	Prerequisite	
1	Field internship	-	12	-	12
	Total	-			12