

Urmia University of Medical Sciences

School of Health

Curriculum of Environmental Health Engineering- BSc. Degree

Urmia University of Medical Sciences (UMSU)- International Campus

Environmental Health Engineering curriculum for the BSc. degree. Some subjects could be displaced between semesters.

Environmental Health Engineering - BSc.-1st semester

	Subject	Number of Credits			Total credits
		Credit (Theoretical)	Credit (Practical)	Prerequisite	
1	Mathematics (integral 1)	4	-		4
2	General Physics	2	1		3
3	Computer and its application	1	1		2
4	Pathobiology	1	1		2
5	Persian Literature	3	-		3
6	Thematic interpretation of Quran	2	-		2
7	management principles of health services	1	-		1
8	Pre university English	2	-		2
9	Holy Defense	2	-		2
Total					21

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Environmental Health Engineering - BSc.- 2th semester

	Subject	Number of Credits			Total credits
		Credit (Theoretical)	Credit (Practical)	Prerequisite	
1	Mathematics (integral 2)	3	-		3
2	General chemistry	2	1		3
3	Health of housing and public places	1	-		1
4	Environmental Microbiology	1	1		2
5	Differential Equations (mathematics)	3	-		3
6	Principles of Epidemiology	2	-		2
7	General English	3	-		3
8	Islamic thought 1	2	-		2
9	Physical Education 1		1		1
	Total				20

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Environmental Health Engineering - BSc.- 3th semester

	Subject	Number of Credits			Total credits
		Credit (Theoretical)	Credit (Practical)	Prerequisite	
1	The principles of thermodynamics and heat transfer	2	-		2
2	Environmental chemistry	1	1		2
3	Fluid Mechanics	2			2
4	Mapping	1	1		2
5	General safety and occupational health	2	-		2
6	Health in food	1	1		2
7	Radiation health & protection	2	-		2
8	Environmental laws and regulations	1	-		1
9	Analytical history of Islam	2	-		2
10	Islamic Thought 2	2	-		2
Total					19

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Environmental Health Engineering - BSc.- 4th semester

	Subject	Number of Credits			Total credits
		Credit (Theoretical)	Credit (Practical)	Prerequisite	
1	Hydraulics	2	-		2
2	Processes and operations in Environmental Health	2	-		2
3	Surface water and groundwater hydrology	2	-		2
4	Technical drawing and mapping	1	1		2
5	Statics and Strength of Materials	3	-		3
6	Disinfectants environment	1	-		1
7	Air pollution	2	1		3
8	Islamic ethics	2	-		2
9	Management of environmental health in emergency	1	-		1
10	Population and Family planning	2	-		2
Total					20

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Environmental Health Engineering - BSc.- 5th semester

	Subject	Number of Credits			Total credits
		Credit (Theoretical)	Credit (Practical)	Prerequisite	
1	Municipal wastewater treatment	2	-		2
2	Transmission systems and distribution of water	1	1		2
3	Soil Mechanics	2	-		2
4	Vector Control Methods	2	-		2
5	Biostatistics	2	-		2
6	Municipal solid waste materials	2	1		3
7	management of Water quality	2	-		2
8	Application of biotechnology in environmental health	1	-		1
9	Physical education 2	-	1		1
10	Culture and civilization of Iran & Islam	2	-		2
11	Project	-	1		1
Total					20

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Environmental Health Engineering - BSc.- 6th semester

	Subject	Number of Credits			Total credits
		Credit (Theoretical)	Credit (Practical)	Prerequisite	
1	Wastewater & surface water collection systems	1	1		2
2	water refinery	2	-		2
3	Industrial wastewater	2	-		2
4	Economic engineering	2	-		2
5	Application of motor pumps in water facilities Wastewater	1	-		1
6	Familiarity with modeling in environment health systems	2	-		2
7	Islamic revolution of Iran	2	-		2
8	English for Specific Purposes(ESP)	2	-		2
9	Safety and the use of pesticides	1	-		1
10	Operation and maintenance of water & Wastewater facilities	-	2		2
11	Environmental Epidemiology	2	-		2
Total					20

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Environmental Health Engineering - BSc.- 7th semester

	Subject	Number of Credits			Total credits
		Credit (Theoretical)	Credit (Practical)	Prerequisite	
1	Field internship 1	-	8		8
2	Field internship 2		8		8
Total		-			16