



Benha University
Faculty of Science



Entomology programs



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BSc. Entomology programs



Entomology programs

University Requirements							First Level
University Compulsory Courses: 4 Credit Hours							
First level							
Course Code	Course Title	Theoretical	T/ P	Credit Hours	Prerequisite		
Uni 100	Scientific Thinking	2	-/-	2	-		
Uni 115	English Language (1)	2	-/-		-		
Uni 151	Human Rights and Anticorruption	1	-/-	1	-		
University Requirements							
University Elective Courses: 4 Credit Hours							
First level							
Course Code	Course Title	Theoretical	T/ P	Credit Hours	Prerequisite		
Uni 105	Information Technology	2	-/-	2	-		
Uni 142	History of Science	2	-/-	2	-		
Uni 152	Healthy Nutrition	2	-/-	2	-		
Faculty Requirements							Firs
Faculty Compulsory Courses: 88 Credit Hours							
First level							
Course Code	Course Title	Theoretical	T/ P	Credit Hours	Prerequisite		
Bot 100	General Botany (1)	1	/-2	2			

Entomology programs

Chm 100	General Chemistry (1)	2	/-2	3		
Com 104	Introduction to Data Base	2	-/2	3		
Chm 105	General Chemistry (2)	2	-/2	3		
Zoo 101	General Zoology (1)	1	-/2	2		
Zoo 102	General Zoology (2)	2	-/2	3		
Bot 105	General Botany (2)	2	-/2	3		
Phy 103	General Physics	1	-/3	2		
Phy 104	Electricity, Magnetism and Modern Physics	1	2-Jan	2		
Mat 111	Calculus	2	2/-	3		
Ent 100	General Entomology	1	-/2	2		
Faculty Compulsory Courses: 60 Credit Hours						
Course Code	Course Title	Theoretical	T / P	Credit Hours	Prerequisite	
Ent 220	Insect Embryology and Anatomy	2	-/2	3	-	Ent

Entomology programs

Ent 222	Insect Taxonomy (2)	1	-/2	2	Ent 223
Ent 223	Insect Morphology and Taxonomy (1)	2	-/3	3	Zoo 102
Ent 225	Cell Biology and Molecular Biology	2	-/-	2	-
Ent 340	Chemical Insecticides	2	-/2	3	Ent 343
Ent 341	Insect Pests of Plants	1	-/2	2	-
Ent 342	Biological Control of Pests and Immunity	2	-/2	3	-
Ent 343	Insect Physiology	2	-/3	3	Ent 220
Ent 461	Medical and Veterinary Entomology	2	-/2	3	Ent 222
Ent 462	Insect Ecology and Behavior	2	-/2	3	Ent 222
Ent 463	Integrated Pest Management	1	-/2	2	Ent 340
Ent 466	Insect Rearing and Preservation	-	-/3	1	Ent 222
Chm 211	Aliphatic Organic Chemistry	2	-/3	3	Chm 105
Chm 212	Aromatic and Polynuclear Chemistry	2	-/-	2	Chm 105



Entomology programs

Chm 222	Chemistry of Representative Elements	2	-/3	3	Chm 100
Chm 232	ElectroChemistry (1)	2	-/-	2	Chm 105
Chm 241	Analytical Chemistry (1)	2	-/3	3	Chm 100
Chm 268	Organic Environmental Green Chemistry (2)	2	-/3	3	Chm 105
Chm 316	Organic Spectroscopy (1)	2	-/3	3	Chm 212
Chm 323	Chemistry of Transition Metals	2	-/-	2	Chm 222
Chm 343	Analytical Chemistry (2)	2	-/3	3	Chm 241
Chm 406	Nanochemistry and Biological Applications	2	-/3	3	Chm 222
Chm 486	Materials Science (1)	2	-/3	3	Chm 222

Faculty Elective Courses: 28 Credit Hours

Course Code	Course Title	Theoretical	T / P	Credit Hours	Prerequisite
Ent 230	Management of Beneficial Insects' Projects	1	-/2	2	Ent 222
Ent 235	Beneficial Insects	1	-/2	2	Ent 222

Entomology

Entomology programs

Ent 347	Selected Topics 1	2	-/3	3	-
Ent 349	Introduction in Insect Biotechnology and Bioinformatics	2	-/3	3	Ent 225
Ent 350	Field Training	1	-/4	3	-
Ent 355	Experimental Design for Insect Control	2	-/2	3	-
Ent 467	Forensic Entomology	1	-/3	2	Ent 461
Ent 470	Aquatic Insects	2	-/-	2	Ent 222
Ent 472	New Trends in Insect Control	1	-/3	2	Ent 463
Ent 475	Stored Product Insects	1	-/2	2	Ent 222
Ent 476	Insect Pathology	2	-/-	2	-
Chm 213	Petroleum and Petrochemicals	2	-/-	2	Chm 105
Chm 217	Industrial Chemistry and Economic Studies	2	-/-	2	Chm 105
Chm 246	Chemistry of Water Treatment (2)	2	-/3	3	Chm 241
Chm 248	Environmental Analytical Chemistry (2)	2	-/3	3	Chm 241



Entomology programs

Chm 311	Chemistry of Pesticides and Toxins	2	-/3	3	Chm 211	
Chm 312	Therapeutic Chemistry and Vitamins	2	-/3	3	Chm 212	
Chm 322	Characterization of Inorganic Compounds	2	-/3	3	Chm 222	
Chm 331	Applied Electrochemistry	2	-/3	3	Chm 105	
Chm 463	Polymer Chemistry and Applications (2)	2	-/3	3	Chm 316	
Chm 493	Instrumental Analysis (2)	2	-/3	3	Chm 323	
Faculty Free Elective Courses: 6 Credit Hours						
Course Code	Course Title	Theoretical	T / P	Credit Hours	Prerequisite	Entomology and Chemistry
Geo 211	Macrofossils	1	-/2	2	-	
Com 223	Logic Design (1)	1	2/-	2	-	
Bph 280	Basis of Biophysics	1	-/2	2	-	
Mic 359	General Microbiology	1	-/2	2	-	
Zoo 360	Fundamentals of Parasitology	1	-/2	2	-	

Entomology programs

Zoo 370	Selected Topics in Zoology	1	-/2	2	-	
Faculty Graduation requirements: 6 Credit Hours						
Ent 358	Applied and Field Training	-	-/-	3	--	
Ent 400	Research and Essay	3	-/-	3	--	
Faculty Compulsory Courses: 60 Credit Hours						
Course Code	Course Title	Theoretical	T / P	Credit Hours	Prerequisite	
Ent 220	Insect Embryology and Anatomy	2	-/2	3	-	Entomology and Microbiology
Ent 222	Insect Taxonomy (2)	1	-/2	2	Ent 223	
Ent 223	Insect Morphology and Taxonomy (1)	2	-/3	3	Zoo 102	
Ent 225	Cell Biology and Molecular Biology	2	-/-	2	-	
Ent 340	Chemical Insecticides	2	-/2	3	Ent 343	
Ent 341	Insect Pests of Plants	1	-/2	2	-	
Ent 342	Biological Control of Pests and Immunity	2	-/2	3	-	
Ent 343	Insect Physiology	2	-/3	3	Ent 220	
Ent 461	Medical and Veterinary Entomology	2	-/2	3	Ent 222	
Ent 462	Insect Ecology and Behavior	2	-/2	3	Ent 222	



Entomology programs

Ent 463	Integrated Pest Management	1	-/2	2	Ent 340	
Ent 466	Insect Rearing and Preservation	-	-/3	1	Ent 222	
Bot 251	Plant Physiology (1)	2	-/-	2	Bot 100	
Mic 262	Mycology	2	-/3	3	Bot 100	
Mic 271	Bacteriology	2	-/3	3	Bot 100	
Mic 272	Actinomycetes	1	-/3	2	Bot 100	
Mic 275	Phycology	2	-/3	3	Bot 100	
Mic 381	Virology	2	-/3	3	Mic 271	
Mic 382	Microbial Immunology	2	-/3	3	Mic 271	
Mic 391	Physiology of Microorganisms	2	-/3	3	Mic 271	
Mic 481	Plant Pathology	1	-/3	2	Mic 271	
Mic 491	Industrial Microbiology	2	-/3	3	Mic 391	
Mic 492	Medical Microbiology	2	-/3	3	Mic 271	
Faculty Elective Courses: 28 Credit Hours						
Course Code	Course Title	Theoretical	T / P	Credit Hours	Prerequisite	
Bot 213	Principles of Cytology and Genetics	1	-/2	2	Bot 105	Ent

Entomology programs

Ent 230	Management of Beneficial Insects' Projects	1	-/2	2	Ent 222
Ent 235	Beneficial Insects	1	-/2	2	Ent 222
Ent 347	Selected Topics 1	2	-/3	3	-
Ent 349	Introduction in Insect Biotechnology and Bioinformatics	2	-/3	3	Ent 225
Ent 350	Field Training	1	-/4	3	-
Ent 355	Experimental Design for Insect Control	2	-/2	3	-
Ent 467	Forensic Entomology	1	-/3	2	Ent 461
Ent 470	Aquatic Insects	2	-/-	2	Ent 222
Ent 472	New Trends In Insect Control	1	-/3	2	Ent 463
Ent 475	Stored Product Insects	1	-/2	2	Ent 222
Ent 476	Insect Pathology	2	-/-	2	-
Mic 282	Molecular Biology	2	-/-	2	Bot 100
Mic 291	Microbiological Laboratory Techniques	1	-/3	2	Bot 100
Mic 292	Yeasts	1	-/3	2	Bot 100
Mic 392	Microbial Toxins	1	-/3	2	Bot 100
394 Mic	Microbial Enzymes	1	-/3	2	Bot 100

Entomology programs

Mic 395	Soil Microbiology	1	-/3	2	Bot 100	
Mic 397	Microbial Genetics	2	-/-	2	Mic 282	
Mic 482	Molecular Plant-microbe Interaction	2	-/-	2	Bot 105	
Mic 495	Antibiotics	1	-/3	2	Bot 100	
Mic 496	Water and Food Microbiology	1	-/3	2	Bot 100	
Mic 497	Bio-fertilizers	1	-/3	2	Mic 271	
Mic 498	Microbial Biotechnology	1	-/3	2	Bot 100	
Faculty Free Elective Courses: 6 Credit Hours						
Course Code	Course Title	Theoretical	T / P	Credit Hours	Prerequisite	Entomology and Microbiology
Geo 211	Macrofossils	1	-/3	2	-	
Com 223	Logic Design (1)	1	2/-	2	-	
Chm 217	Industrial Chemistry and Economic Studies	2	-/-	2	-	
Bph 280	Basis of Biophysics	1	-/2	2	-	
Zoo 360	Fundamentals of Parasitology	1	-/2	2	-	
Zoo 370	Selected Topics in Zoology	1	-/2	2	-	
Faculty Graduation requirements: 6 Credit Hours						



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Entomology programs

Ent 358	Applied and Field Training	-	-/-	3	--	
Ent 400	Research and Essay	3	-/-	3	--	