



Benha University Faculty of Science



Biological and Chemical Sciences in Forensics



Benha University Faculty of Science



BSc. Biological and Chemical Sciences in Forensics
Credited



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Biological and Chemical Sciences in Forensics

University Requirements					
University Compulsory Courses: 4 Credit Hours					
First level					
Course Code	Course Title	Theoretical	Practical	Credit Hours	Prerequisite
UR 15	Language	2	—	2	—
UR 90	Lab Safety	1	2	2	—
University Requirements					
University Elective Courses: 4 Credit Hours					
First level					
Course Code	Course Title	Theoretical	Practical	Credit Hours	Prerequisite
UR 40	Biodiversity and Sustainable Development	2	—	2	—
UR 60	Write and publish Scientific paper	1	—	1	—
UR 70	The foundations of Communication and Information Technology	1	—	1	—



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UR 80	Ethics of practicing the profession	2	—	2	—
Faculty Requirements					
Faculty Compulsory Courses: 88 Credit Hours					
Faculty Obligatory Courses: 60 Credit Hours					
Course Code	Course Title	Theoretical	Pract./ exc.	Credit Hours	Prerequisite
Chm 101	General Chemistry I	2	2	3	—
Phy 101	General Physics I	2	1	2	—
Mat 101	General Math I	2	2	3	—
Bio 101	General Biology I	2	3	3	—
Bot 101	General Botany	2	2	3	—
Chm 102	General Chemistry II	2	3	3	Chm 101
Phy 104	General Physics II	2	1	2	Phy 101
Bio 104	General Biology II	2	3	3	Bio 101
Mic 102	Fundamentals of Microbiology	2	2	3	—
Com 106	Computer Science	2	2	3	—



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Chm 201	Organic Chemistry I	2	2	3	Chm 102
Mat 201	General Math II	2	3	2	Mat 101
Bio 203	Principles of Molecular Biology and Genetics	2	3	3	Bio 101
Frs 207	Introduction to Forensic Science	2	—	2	—
Chm 202	Organic Chemistry II	3	2	3	Chm 201
Sta 208	Biostatistics	1	3	2	Mat 201
Geo 208	Forensic Geology	2	3	3	Frs 207
Chm 216	Quantitative Analysis	2	2	3	Chm 102
Ent 222	Medical and Veterinary Entomology	2	2	3	Bio 104
BCh 301	Biochemistry	2	3	3	Chm 202
Chm 303	Instrumental Analysis	2	3	3	Chm 216
Ent 307	Forensic Entomology I	1	3	2	Ent 222
Bot 309	Forensic Botany	2	3	3	Bot 101



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Med 304	Forensic Toxicology and Drugs	2	3	3	Chm 303
Ent 308	Forensic Entomology II	2	3	3	Ent 307
BCh 312	Clinical Biochemistry	2	3	3	BCh 301
Law 403	Law and Forensic Science	2	—	2	Frs 207
Mic 409	Microbial Forensics	2	2	3	Mic 102
Bio 411	Forensic Genetics	3	—	3	Bio 203
Bio 402	Forensic Biotechnology	2	2	3	Bio 411
Chm 412	Chemical Principles in Forensic Science	2	3	3	Chm 303
Frs 414	Crime Scene Investigation	2	—	2	Frs 202

Faculty Requirements

Faculty Elective Courses: 28 Credit Hours

Course Code	Course Title	Theoretical	Pract.	Credit Hours	Prerequisite
Mic 201	Food Microbiology	2	3	3	Mic 102
BPh 203	Biophysics	2	3		Phy 104



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Bio 204	Principles of Genetic Engineering	3	—	3	Bio 203
Bio 206	Population and Ecological Genetics	3	—		Bio 203
Com 307	Data Analysis with R program	1	3	2	Com 106 & Sta 208
Com 311	Digital Imaging Processing	1	3		Com 106
Med 317	Fundamentals of Human Anatomy	2	3	3	Bio 104
Med 319	Introduction to Biological Anthropology	3	—		
Med 312	Forensic Anthropology	2	2	6	Med 317 or Med 319
Med 314	Forensic Pathology	2	3		Frs 207
Zoo 316	Forensic Parasitology	2	3		Ent 222
Bio 401	Environmental Forensics	2	2	3	Bio 101 & Med 304 & Bot 309
Ent 403	Carrion Ecology	2	2		Ent 307
Chm 417	Questioned Document Examination	2	2	3	Chm 216 & Chm 303



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Med 419	Immunochemistry	3	—		Med 304 & BCh 312
Bio 406	Bioinformatics	2	3	3	Bio 402
Chm 414	Cheminformatics	2	3		Chm 201 & Chm 216
Frs 418	Case Studies in Problem Solving	2	—	2	—
Soc 422	Criminal Psychology	2	—		—
Faculty Elective outside of specialization Courses: 6 Credit Hours					
Course Code	Course Title	Theoretical	Pract.	Credit Hours	Prerequisite
Com 207	Computer Graphics	2	2	3	—
Phy 213	Introduction to Electricity and Electronics	2	2		—
Com 403	Web Programming	2	2	3	—
Phy 417	Modern Optics and Thermal Physics	2	2		—
Faculty Graduation requirements: 6 Credit Hours					
Field training		3	—	3	—



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Research Project	3	—	3	—
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